

**Flood Control Project Maintenance
Levee Inspections**

Fall 2019 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

RD1500	Overall LMA Rating	Total LMA Miles	* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.					
Reclamation District No. 1500 Sutter Basin	M *	53.87						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation					0.14			
Encroachments					4.73	0.19		
Animal Control	0.18		0.18	0.33%				
Slope Stability	0.01		0.01	0.02%				
Erosion / Bank Caving	0.05		0.05	0.09%				
Crown Surface / Depressions / Rutting	0.02		0.02	0.04%				
Underseepage Relief Wells		0.01	0.04	0.07%				
<i>Supplemental</i>								
DRAFT DWR UCIP Field Study					0.46	0.01		
<i>LMA Totals:</i>	0.26	0.01	0.30	0.56% *	5.33	0.20	0.00	0.00
Unit No. 01 Sacramento River LB	Overall Unit Rating	Total Unit Miles						
RD1500	A	33.15						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation					0.14			
Encroachments					4.72	0.19		
Animal Control	0.16		0.16	0.48%				
Slope Stability	0.01		0.01	0.03%				
Erosion / Bank Caving	0.05		0.05	0.15%				
Crown Surface / Depressions / Rutting	0.02		0.02	0.06%				
<i>Supplemental</i>								
DRAFT DWR UCIP Field Study					0.46	0.01		
<i>Unit Totals:</i>	0.24	0.00	0.24	0.72%	5.32	0.20	0.00	0.00
Unit No. 02 Sutter Bypass RB	Overall Unit Rating	Total Unit Miles	* Overall Unit Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall Unit Rating is M instead of A.					
RD1500	M *	20.72						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Encroachments					0.01			
Animal Control	0.02		0.02	0.10%				
Underseepage Relief Wells		0.01	0.04	0.19%				
<i>Unit Totals:</i>	0.02	0.01	0.06	0.29% *	0.01	0.00	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2019 Levee Inspection Results

Reclamation District No. 1500 Sutter Basin

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			M *	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.

†	<p>SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.</p> <p>FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.</p>
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Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2019 Levee Inspection Results

Reclamation District No. 1500 Sutter Basin

Waterway			Bank	Unit Miles
Unit No. 01 Sacramento River			Left	33.15
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	4/24/2019 - 4/26/2019		10/30/2019 - 10/30/2019	
DWR Inspector	Zach Jojola		Zach Jojola	
Accompanied By			Jon Scott Reclamation District 1500	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start		Rating **	A	Issue No.	9
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
DWR ID	DWR_RD1500_01_s _ 2013_9				
Comment Code					
Inspector Comment					
RD 1500 has their O&M Manual.					

No Photos

LM Start		Rating **	A	Issue No.	55
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
DWR ID	DWR_RD1500_01_s _ 2013_55				
Comment Code					
Inspector Comment					
RD 1500 maintains a stockpile of flood response material.					

No Photos

LM Start		Rating **	A	Issue No.	61
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
DWR ID	DWR_RD1500_01_s _ 2013_61				
Comment Code					
Inspector Comment					
RD 1500 is current with it's flood response plans and training.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	0.19	Rating **	M	Issue No.	93
LM End	0.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.761730°	38.761730°
				-121.677953°	-121.677953°
DWR ID	DWR_RD1500_01_s_2019_93				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
There are multiple rodent holes near the landside toe.					

No Photos

LM Start	0.21	Rating **	M	Issue No.	129
LM End	0.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.761957°	38.761957°
				-121.678145°	-121.678145°
DWR ID	DWR_RD1500_01_f_2019_129				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Large rodent hole near the landside toe.					

No Photos

LM Start	0.29	Rating **	C	Issue No.	152
LM End	0.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.762945°	38.762945°
				-121.678812°	-121.678812°
DWR ID	DWR_RD1500_01_f_2018_152				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
There are multiple holes on the the landside slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	0.31	Rating **	M	Issue No.	2550	
LM End	0.31	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.763210 °	38.763210 °	
				-121.679017 °	-121.679017 °	
DWR ID	20032					
Comment Code						
Inspector Comment						
DS_ID:20032 FS_ID:28183 EP_NO: 1566A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - soil erosion around headwall on waterside.- pump was removed.- overhead powerline. FIELD_STRUCT_DESC: *REPLACEMENT CROSSING* 10-inch coated steel irrigation discharge pipe through the levee, 5 feet below the crown. Pump and switch panel on the waterside (WS) berm. Service pole on WS shoulder. Siphon breaker on the landside (LS) slope. 3-foot by 4-foot concrete distribution box at the LS toe. (Replacement of an existing pipeline through the levee authorized under Permit No. 1566-A, 1980 - Ralph White Jr.). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 0.30), 8-inch pipe referenced]. FS Date: 1/9/2014						

LM Start	0.31	Rating **	M	Issue No.	2550 (cont)
LM End	0.31	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_28183_51845.jpg



WS view: concrete blocks headwall and pump on river bank. Pump has been removed (marked). Surface erosion around headwall.

Photo 2 of 3 : UCIP_FA_2019_28183_51844.jpg



LS view: pressure breaker (bottom) in steel pipe riser and concrete distribution box on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	0.31	Rating **	M	Issue No.	2550 (cont)	
LM End	0.31	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.763210 °	38.763210 °	
				-121.679017 °	-121.679017 °	
DWR ID	20032					
Comment Code						
Inspector Comment						
DS_ID:20032 FS_ID:28183 EP_NO: 1566A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - soil erosion around headwall on waterside.- pump was removed.- overhead powerline. FIELD_STRUCT_DESC: *REPLACEMENT CROSSING* 10-inch coated steel irrigation discharge pipe through the levee, 5 feet below the crown. Pump and switch panel on the waterside (WS) berm. Service pole on WS shoulder. Siphon breaker on the landside (LS) slope. 3-foot by 4-foot concrete distribution box at the LS toe. (Replacement of an existing pipeline through the levee authorized under Permit No. 1566-A, 1980 - Ralph White Jr.). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 0.30), 8-inch pipe referenced]. FS Date: 1/9/2014						

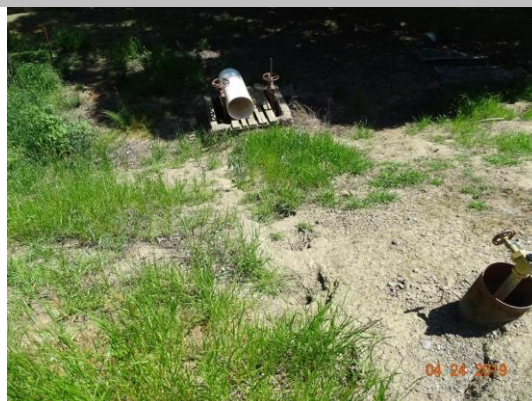
Photo 3 of 3 : UCIP_FA_2019_28183_51843.jpg



LS view: open steel pipe in concrete distribution box on levee toe.

LM Start	0.31	Rating **	M	Issue No.	145
LM End	0.31	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.763230 °	38.763230 °
				-121.679014 °	-121.679014 °
DWR ID	DWR_RD1500_01_f_2018_145				
Comment Code					
ST : Stairway					
Inspector Comment					
Stairs are dug into the landside slope.					

Photo 1 of 1 : FA_2019_RD1500_189_145_20190829_00068.jpg



View of stairs on the landside slope. Spring 2019.

* Location
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

** Rating
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

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Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	0.32	Rating **	M	Issue No.	90
LM End	0.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.763334 °	38.763334 °
				-121.679119 °	-121.679119 °
DWR ID	DWR_RD1500_01_s _ 2019_90				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
A large rodent hole is near the landside shoulder.					

No Photos

LM Start	0.37	Rating **	M	Issue No.	149
LM End	0.37	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.763826 °	38.763826 °
				-121.679787 °	-121.679787 °
DWR ID	DWR_RD1500_01_s _ 2017_149				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
There are multiple holes on the landside slope.					

No Photos

LM Start	0.38	Rating **	M	Issue No.	128
LM End	0.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.763909 °	38.763909 °
				-121.679930 °	-121.679930 °
DWR ID	DWR_RD1500_01_f _ 2019_128				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Multiple rodent holes on the landside slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	0.56	Rating **	A/W	Issue No.	72
LM End	0.82	Issue Type +	Ob	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.764462°	38.764638°
				-121.683167°	-121.687690°
DWR ID	DWR_RD1500_01_s_2018_72				
Comment Code					
V8 : Environmental Requirements.					
Inspector Comment					

Photo 1 of 2 : FA_2019_RD1500_189_72_20190829_00024.jpg



View of the revegetation site on the waterward side toe of the levee looking upstream. Spring 2016.

LM Start	0.56	Rating **	A/W	Issue No.	72 (cont)
LM End	0.82	Issue Type +	Ob	Location *	WS

Photo 2 of 2 : FA_2019_RD1500_189_72_20190829_00025.jpg



Sign is located at the toe of the levee on the waterward side. Spring 2016.

LM Start	1.10	Rating **	C	Issue No.	100
LM End	1.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.767407 °	38.767407 °
				-121.691589 °	-121.691589 °
DWR ID	DWR_RD1500_01_f_2018_100				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
There are multiple holes on the landside slope and berm.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	1.13	Rating **	M	Issue No.	127
LM End	1.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.767761 °	38.767761 °
				-121.691900 °	-121.691900 °
DWR ID	DWR_RD1500_01_f_2019_127				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes on the landside slope.					

No Photos

LM Start	1.17	Rating **	M	Issue No.	126
LM End	1.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.768288 °	38.768288 °
				-121.692203 °	-121.692203 °
DWR ID	DWR_RD1500_01_f_2019_126				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes on the landside slope.					

No Photos

LM Start	1.25	Rating **	M	Issue No.	99
LM End	1.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.769274 °	38.769274 °
				-121.691700 °	-121.691700 °
DWR ID	DWR_RD1500_01_f_2017_99				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
There are multiple rodent holes and mounds on the landside slope.					

Photo 1 of 2 : FA_2019_RD1500_189_99_20190829_00042.jpg



View of rodent holes. Spring 2018

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	1.25	Rating **	M	Issue No.	99 (cont)	
LM End	1.25	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			38.769274 °		38.769274 °
				-121.691700 °		-121.691700 °
DWR ID	DWR_RD1500_01_f_2017_99					
Comment Code						
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						
Inspector Comment						
There are multiple rodent holes and mounds on the landside slope.						

Photo 2 of 2 : FA_2019_RD1500_189_99_20190829_00043.jpg



View of holes and mounds on landside slope. Fall 2017.

LM Start	1.29	Rating **	M	Issue No.	2551	
LM End	1.29	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.769697 °	38.769697 °	
				-121.691024 °	-121.691024 °	
DWR ID	20094					
Comment Code						
Inspector Comment						
DS_ID:20094 FS_ID:28903 EP_NO: 10080 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pump removed from concrete pad and kept inside pump house (may be for storage purpose) on waterside.A 8-inch steel pipe inside 14-inch pipe. FIELD_STRUCT_DESC: 1 of 2: 14-inch steel irrigation discharge pipe through the levee, 5.2 feet below the crown. Pump in a corrugated metal pump house on the waterside (WS) slope. Butterfly valve on the WS. Concrete staircase on the WS slope. 1.75-inch galvanized iron water line with faucet exposed on the landside (LS) slope, 3.4 feet below the crown. 4-foot by 5.7-foot concrete distribution box at the LS toe. 1.25-inch conduit through levee, 2 feet below the crown. (14-inch steel irrigation discharge pipe through the levee and pump in a corrugated metal pump house on the WS slope authorized under Automatic Board Order (ABO) issued as Permit No. 10080, 1974 - Sebastian Yturralde). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 1.28)]. FS Date: 1/9/2014						

Photo 1 of 3 : UCIP_FA_2019_28903_53162.jpg



WS view: pipe (left), pump house/store, and concrete steps.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	1.29	Rating **	M	Issue No.	2551 (cont)
LM End	1.29	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.769697°	38.769697°
				-121.691024°	-121.691024°
DWR ID	20094				

Comment Code

Inspector Comment

DS_ID:20094
FS_ID:28903
EP_NO: 10080
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Pump removed from concrete pad and kept inside pump house (may be for storage purpose) on waterside. A 8-inch steel pipe inside 14-inch pipe.
FIELD_STRUCT_DESC: 1 of 2: 14-inch steel irrigation discharge pipe through the levee, 5.2 feet below the crown. Pump in a corrugated metal pump house on the waterside (WS) slope. Butterfly valve on the WS. Concrete staircase on the WS slope. 1.75-inch galvanized iron water line with faucet exposed on the landside (LS) slope, 3.4 feet below the crown. 4-foot by 5.7-foot concrete distribution box at the LS toe. 1.25-inch conduit through levee, 2 feet below the crown. (14-inch steel irrigation discharge pipe through the levee and pump in a corrugated metal pump house on the WS slope authorized under Automatic Board Order (ABO) issued as Permit No. 10080, 1974 - Sebastian Yturralde). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 1.28)].
FS Date: 1/9/2014

LM Start	1.29	Rating **	M	Issue No.	2551 (cont)
LM End	1.29	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_28903_53161.jpg



WS view: U type headwall and 8-inch pipe sleeved into 14-inch steel pipe. Pump was removed from the pipe.

Photo 3 of 3 : UCIP_FA_2019_28903_53160.jpg



WS view: pump removed from pipe and stored in pump house.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	1.29	Rating **	M	Issue No.	2552	
LM End	1.29	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.769698 °	38.769698 °	
				-121.691023 °	-121.691023 °	
DWR ID	20095					
Comment Code						
Inspector Comment						
DS_ID:20095 FS_ID:28905 EP_NO: 10080 Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: - an electrical conduit for the pump- 1-3/4-inch galvanized iron waterline with tap exposed on landward slope 3.4 feet below crown not found.Included in Record No. 20094. FIELD_STRUCT_DESC: 2 of 2: 14-inch steel irrigation discharge pipe through the levee, 5.2 feet below the crown. Pump in a corrugated metal pump house on the waterside (WS) slope. Butterfly valve on the WS. Concrete staircase on the WS slope. 1.75-inch galvanized iron water line with faucet exposed on the landside (LS) slope, 3.4 feet below the crown. 4-foot by 5.7-foot concrete distribution box at the LS toe. 1.25-inch conduit through levee, 2 feet below the crown. (1.75-inch galvanized iron water line authorized under Automatic Board Order (ABO) issued as Permit No. 10080, 1974 - Sebastian Yturalde). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 1.28)]. FS Date: 1/9/2014						

No Photos

LM Start	1.33	Rating **	M	Issue No.	4
LM End	1.33	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.770023 °	38.770023 °
				-121.690575 °	-121.690575 °
DWR ID	DWR_RD1500_01_s_2012_4				
Comment Code					
RW : Retaining Wall					
Inspector Comment					
A retaining wall was built into the levee.					

Photo 1 of 1 : FA_2019_RD1500_189_4_20190829_00001.jpg



View of the retaining wall that is in USACE as-builts on the landward side of the levee looking upstream. Wall cuts into levee toe. Spring 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	1.34	Rating **	A/W	Issue No.	85
LM End	1.95	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.770390 °	38.777282 °
				-121.690553 °	-121.685841 °
DWR ID	DWR_RD1500_01_f_2018_85				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 86.3 L Status: Eroding 2017 Field Notes: No observed change.. Site History: 2006 - New erosion upstream, new bank failures near levee but still fairly wide berm in most places. 2008 - Large berm, questionable as to if it should remain in the inventory. 2010 - Minor new erosion, old cobble starting to fail. 2011 - Cobble continues to unravel and additional slumping. 2012 - Minor new erosion at bank mid point. 2013 - Minor new erosion. 2016 - Toe relatively stable. Upper slope is over steepened.					

Photo 1 of 1 : FA_2019_RD1500_189_85_20190829_00032.jpg



USACE 2013 Photo #1

LM Start	1.35	Rating **	M	Issue No.	98
LM End	1.35	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.770142°	38.770142°
				-121.690178°	-121.690178°
DWR ID	DWR_RD1500_01_f_2017_98				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Oleander bush on the landside slope needs to be trimmed, but it does not completely block visibility.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	1.63	Rating **	M	Issue No.	2553	
LM End	1.63	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.772862 °	38.772862 °	
				-121.686453 °	-121.686453 °	
DWR ID	20033					
Comment Code						
Inspector Comment						
DS_ID:20033 FS_ID:28204 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - pump removed- erosion around pump station.- overhead electrical line. FIELD_STRUCT_DESC: 10-inch steel irrigation discharge pipe through the levee, 10 feet below the crown. Pump and gate valve on the riverbank. Service pole and switch panel on the waterside (WS) shoulder. Pipe crosses irrigation ditch and discharges into a steel distribution box in the field. (10-inch steel irrigation discharge pipe through the levee and pump on the riverbank authorized under Automatic Board Order (ABO) issued as Permit No. 10043, 1974 - Leo Giovanetti). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 1.63)]. FS Date: 1/9/2014						

LM Start	1.63	Rating **	M	Issue No.	2553 (cont)
LM End	1.63	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_28204_51875.jpg



WS view: Service pole with control panel on levee shoulder.

Photo 2 of 3 : UCIP_FA_2019_28204_51874.jpg



WS view: pump (removed) and inlet pipe on river bank.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	1.63	Rating **	M	Issue No.	2553 (cont)	
LM End	1.63	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.772862 °	38.772862 °	
				-121.686453 °	-121.686453 °	
DWR ID	20033					
Comment Code						
Inspector Comment						
DS_ID:20033 FS_ID:28204 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - pump removed- erosion around pump station.- overhead electrical line. FIELD_STRUCT_DESC: 10-inch steel irrigation discharge pipe through the levee, 10 feet below the crown. Pump and gate valve on the riverbank. Service pole and switch panel on the waterside (WS) shoulder. Pipe crosses irrigation ditch and discharges into a steel distribution box in the field. (10-inch steel irrigation discharge pipe through the levee and pump on the riverbank authorized under Automatic Board Order (ABO) issued as Permit No. 10043, 1974 - Leo Giovanetti). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 1.63)]. FS Date: 1/9/2014						

Photo 3 of 3 : UCIP_FA_2019_28204_51873.jpg



LS view: pipe crosses irrigation ditch. Steel distribution box across irrigation ditch.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	1.96	Rating **	M	Issue No.	2554	
LM End	1.96	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.777433 °	38.777433 °	
				-121.685348 °	-121.685348 °	
DWR ID	20034					
Comment Code						
Inspector Comment						
DS_ID:20034 FS_ID:28263 EP_NO: 16146 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - pump removed- overhead powerline- pile structure abandoned- levee slope erosion due to leaky siphon breaker on landside. FIELD_STRUCT_DESC: *REPLACEMENT CROSSING* 12-inch steel irrigation discharge pipe through the levee, 12 feet below the crown. Pump mounted on the riverbank. Butterfly valve on the waterside (WS). Power pole with one anchor on the WS slope. Pipe discharges into a 5-foot by 5-foot damaged concrete distribution box across the irrigation ditch on the landside (LS). Electrical conduit through the levee. (Cat. I - Furlan). (Abandonment-in-place of an existing pipe and replacement of approximately 70 feet of 12-inch irrigation discharge pipe authorized under Permit No. 16146, 1993 - Antonio Furlan and Joe Schreiner). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 1.96)]. FS Date: 1/9/2014						

LM Start	1.96	Rating **	M	Issue No.	2554 (cont)
LM End	1.96	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_28263_51965.jpg



WS view: Pump (removed and plywood plated), pipe, and gate valve in CMP riser on river bank.

Photo 2 of 3 : UCIP_FA_2019_28263_51964.jpg



LS view: siphon breaker in CMP riser. Levee slope erosion due to leaky siphon breaker.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	1.96	Rating **	M	Issue No.	2554 (cont)	
LM End	1.96	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.777433 °	38.777433 °	
				-121.685348 °	-121.685348 °	
DWR ID	20034					
Comment Code						
Inspector Comment						
DS_ID:20034 FS_ID:28263 EP_NO: 16146 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - pump removed- overhead powerline- pile structure abandoned- levee slope erosion due to leaky siphon breaker on landside. FIELD_STRUCT_DESC: *REPLACEMENT CROSSING* 12-inch steel irrigation discharge pipe through the levee, 12 feet below the crown. Pump mounted on the riverbank. Butterfly valve on the waterside (WS). Power pole with one anchor on the WS slope. Pipe discharges into a 5-foot by 5-foot damaged concrete distribution box across the irrigation ditch on the landside (LS). Electrical conduit through the levee. (Cat. I - Furlan). (Abandonment-in-place of an existing pipe and replacement of approximately 70 feet of 12-inch irrigation discharge pipe authorized under Permit No. 16146, 1993 - Antonio Furlan and Joe Schreiner). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 1.96)]. FS Date: 1/9/2014						

Photo 3 of 3 : UCIP_FA_2019_28263_51963.jpg



LS view: discharge pipe crossing irrigation ditch.

LM Start	2.30	Rating **	A/W	Issue No.	87	
LM End	2.52	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 USACE Erosion Survey			38.781962 °	38.784936 °	
				-121.688033 °	-121.690033 °	
DWR ID	DWR_RD1500_01_f_ 2018_87					
Comment Code						
Inspector Comment						
2017 Site ID: SAC 87.1 L						
Status: Eroding						
2017 Field Notes: Large whole bank failure section in middle of site.						
Site History: 2010 - The upstream end of the repair site at 87.0. Repair did not extend far enough upstream. 2011 - New erosion pockets.						
2012 - Minor new erosion at toe. 2013 - Minor new erosion. 2015 - Significant new toe erosion. 2016 - Fresh erosion on riverbank.						

Photo 1 of 1 : FA_2019_RD1500_189_87_20190829_00035.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	2.38	Rating **	M	Issue No.	2555	
LM End	2.38	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.783184°	38.783184°	
				-121.688136°	-121.688136°	
DWR ID	20035					
Comment Code						
Inspector Comment						
DS_ID:20035 FS_ID:28264 EP_NO: 10029 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - pump removed- outlet plugged- looks abandoned. Found abandoned pipe parts on levee slope and berm.- overhead powerline FIELD_STRUCT_DESC: *ABANDONED* 12-inch steel irrigation discharge pipe through the levee, 11 feet below the crown. Two metal cutoff walls installed. Pumps on the riverbank during irrigation season. Gate valve at the waterside (WS) toe. Pipe discharges into a 2.5-foot by 2.5-foot concrete distribution box on the landside (LS) of the irrigation ditch. (Retention of a 12-inch steel irrigation discharge pipe through the levee and pumps on the riverbank during irrigation season authorized under Automatic Board Order (ABO) issued as Permit No. 10029, 1974 - Merle Anderson). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 2.40)]. FS Date: 1/9/2014						

LM Start	2.38	Rating **	M	Issue No.	2555 (cont)
LM End	2.38	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_28264_51971.jpg



WS view: steel pipe, gate valve, and pump (removed) on river bank. Looks abandoned.

Photo 2 of 3 : UCIP_FA_2019_28264_51970.jpg



LS view: discharge pipe crossing irrigation ditch on landside.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	2.38	Rating **	M	Issue No.	2555 (cont)	
LM End	2.38	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.783184°	38.783184°	
				-121.688136°	-121.688136°	
DWR ID	20035					
Comment Code						
Inspector Comment						
DS_ID:20035 FS_ID:28264 EP_NO: 10029 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - pump removed- outlet plugged- looks abandoned. Found abandoned pipe parts on levee slope and berm.- overhead powerline FIELD_STRUCT_DESC: *ABANDONED* 12-inch steel irrigation discharge pipe through the levee, 11 feet below the crown. Two metal cutoff walls installed. Pumps on the riverbank during irrigation season. Gate valve at the waterside (WS) toe. Pipe discharges into a 2.5-foot by 2.5-foot concrete distribution box on the landside (LS) of the irrigation ditch. (Retention of a 12-inch steel irrigation discharge pipe through the levee and pumps on the riverbank during irrigation season authorized under Automatic Board Order (ABO) issued as Permit No. 10029, 1974 - Merle Anderson). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 2.40)]. FS Date: 1/9/2014						

Photo 3 of 3 : UCIP_FA_2019_28264_51969.jpg



LS view: plugged discharge pipe with air vent across irrigation ditch on landside.

LM Start	2.54	Rating **	M	Issue No.	963
LM End	3.68	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.785351 °	38.797128 °
				-121.689075 °	-121.691047 °
DWR ID	DWR_RD1500_01_s_2012_963				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD1500_189_963_20190829_00073.jpg



View of the ditch at the toe of the landward side of the levee looking upstream. Spring 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	3.26	Rating **	M	Issue No.	124
LM End	3.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.792004 °	38.792004 °
				-121.688571 °	-121.688571 °
DWR ID	DWR_RD1500_01_f_2019_124				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Big holes on the landside slope.					

No Photos

LM Start	3.69	Rating **	M	Issue No.	131
LM End	3.69	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.797152 °	38.797152 °
				-121.691238 °	-121.691238 °
DWR ID	DWR_RD1500_01_f_2016_131				
Comment Code					
BU : Building					
Inspector Comment					
There is an abandoned building at this location.					

Photo 1 of 1 : FA_2019_RD1500_189_131_20190829_00063.jpg



Abandoned building at waterward toe of the levee. Fall 2016.

LM Start	3.94	Rating **	U	Issue No.	7
LM End	3.94	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.797573 °	38.797573 °
				-121.695727 °	-121.695727 °
DWR ID	DWR_RD1500_01_s_2012_7				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 2 : FA_2019_RD1500_189_7_20190829_00002.jpg



A small building is encroaching into the landside levee toe.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	3.94	Rating **	U	Issue No.	7 (cont)	
LM End	3.94	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Encroachments			38.797573 °	38.797573 °	
				-121.695727 °	-121.695727 °	
DWR ID	DWR_RD1500_01_s_2012_7					
Comment Code						
BU : Building						
Inspector Comment						

Photo 2 of 2 : FA_2019_RD1500_189_7_20190829_00003.jpg



Chicken coupes have been added along the toe of the levee. Spring

LM Start	4.01	Rating **	M	Issue No.	2556	
LM End	4.01	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.798436 °	38.798436 °	
				-121.696280 °	-121.696280 °	
DWR ID	20037					
Comment Code						
Inspector Comment						
DS_ID:20037 FS_ID:28272 EP_NO: 3638 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - No protection for pressure breaker. FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, 2.4 feet below the crown. Slant pump on the berm. Siphon breaker on the landside (LS) slope. Service pole at the LS toe. Pipe discharges into a 36-inch concrete standpipe on the LS. (Installation, maintenance, and operation of an inclined pump and an existing pipe to remain through the levee authorized under Permit No. 3638, 1961 - James F. Waters). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 4.04)]. FS Date: 1/9/2014						

Photo 1 of 3 : UCIP_FA_2019_28272_52012.jpg



WS view: slant pump on steel frame on levee berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	4.01	Rating **	M	Issue No.	2556 (cont)	
LM End	4.01	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DRAFT DWR UCIP Field Study			38.798436 °		38.798436 °
				-121.696280 °		-121.696280 °
DWR ID	20037					
Comment Code						
Inspector Comment						
DS_ID:20037						
FS_ID:28272						
EP_NO: 3638						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: - No protection for pressure breaker.						
FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, 2.4 feet below the crown. Slant pump on the berm. Siphon breaker on the landside (LS) slope. Service pole at the LS toe. Pipe discharges into a 36-inch concrete standpipe on the LS. (Installation, maintenance, and operation of an inclined pump and an existing pipe to remain through the levee authorized under Permit No. 3638, 1961 - James F. Waters). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 4.04)].						
FS Date: 1/9/2014						

LM Start	4.01	Rating **	M	Issue No.	2556 (cont)
LM End	4.01	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_28272_52011.jpg



LS view: pressure breaker without protection on levee slope.

Photo 3 of 3 : UCIP_FA_2019_28272_52013.jpg



LS view: power pole and concrete standpipe on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	4.02	Rating **	M	Issue No.	54
LM End	4.12	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.798526 °	38.800063 °
				-121.696326 °	-121.696622 °
DWR ID	DWR_RD1500_01_s_2012_54				
Comment Code					
DT : Ditch					
Inspector Comment					
A ditch runs along the toe of the levee.					

Photo 1 of 1 : FA_2019_RD1500_189_54_20190829_00022.jpg



View of the ditch on the landward side of the levee looking upstream. Spring 2016.

LM Start	4.16	Rating **	M	Issue No.	11
LM End	4.16	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.800548 °	38.800548 °
				-121.696751 °	-121.696751 °
DWR ID	DWR_RD1500_01_f_2019_11				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD1500_189_11_20190829_00004.jpg



View of the equipment shed on the landward side of the levee looking downstream. Spring 2016.

LM Start	4.31	Rating **	M	Issue No.	113
LM End	4.38	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.802493 °	38.803205 °
				-121.697971 °	-121.698998 °
DWR ID	DWR_RD1500_01_f_2019_113				
Comment Code					
PR : Prunings					
Inspector Comment					
Orchard tree stumps at the landside toe.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	4.48	Rating **	M	Issue No.	111
LM End	4.48	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.803737 °	38.803737 °
				-121.700748 °	-121.700748 °
DWR ID	DWR_RD1500_01_f_2019_111				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Tree limbs on the landside slope.					

No Photos

LM Start	4.61	Rating **	C	Issue No.	142
LM End	4.61	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.803509 °	38.803509 °
				-121.703046 °	-121.703046 °
DWR ID	DWR_RD1500_01_f_2018_142				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	4.68	Rating **	M	Issue No.	2557	
LM End	4.68	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.803025 °	38.803025 °	
				-121.704091 °	-121.704091 °	
DWR ID	20040					
Comment Code						
Inspector Comment						
DS_ID:20040 FS_ID:28912 EP_NO: 5031 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: New butterfly valve in CMP riser on waterside slope. New pipe and pump.Needs cleaning and clearing of siphon breaker in CMP on landside.An abandoned 5x5 foot concrete distribution box on landside. Abandoned pipe found on both sides of the levee. FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee at a slight angle, 4.2 feet below the crown. 2-inch conduit through the levee, 2 feet below the crown. Slant pump on a steel platform on the berm. (Slant pump authorized under Permit No. 5031, 1965 - Gladys Johnston and Helen Dixon). Pipe discharges into an irrigation ditch and an abandoned 5-foot by 5-foot concrete distribution box on the landside. (Pipe originally installed in 1950. 12-inch centrifugal irrigation pump and 14-inch, 12-gage welded steel pipe through the levee authorized under Permit No. 1466, 1950 - Estate of Caroline L. Knox. Pipe reinstalled by USACE in 1958). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 4.71)]. FS Date: 1/9/2014						

LM Start	4.68	Rating **	M	Issue No.	2557 (cont)
LM End	4.68	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_28912_53181.jpg



WS view: slant pump and switch panel in shed on levee berm.

Photo 2 of 3 : UCIP_FA_2019_28912_53180.jpg



LS view: obstructed siphon breaker in CMP riser.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	4.68	Rating **	M	Issue No.	2557 (cont)
LM End	4.68	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.803025 °	38.803025 °
				-121.704091 °	-121.704091 °
DWR ID	20040				
Comment Code					
Inspector Comment					
DS_ID:20040 FS_ID:28912 EP_NO: 5031 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: New butterfly valve in CMP riser on waterside slope. New pipe and pump. Needs cleaning and clearing of siphon breaker in CMP on landside. An abandoned 5x5 foot concrete distribution box on landside. Abandoned pipe found on both sides of the levee. FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee at a slight angle, 4.2 feet below the crown. 2-inch conduit through the levee, 2 feet below the crown. Slant pump on a steel platform on the berm. (Slant pump authorized under Permit No. 5031, 1965 - Gladys Johnston and Helen Dixon). Pipe discharges into an irrigation ditch and an abandoned 5-foot by 5-foot concrete distribution box on the landside. (Pipe originally installed in 1950. 12-inch centrifugal irrigation pump and 14-inch, 12-gage welded steel pipe through the levee authorized under Permit No. 1466, 1950 - Estate of Caroline L. Knox. Pipe reinstalled by USACE in 1958). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 4.71)]. FS Date: 1/9/2014					

Photo 3 of 3 : UCIP_FA_2019_28912_53179.jpg



WS view: new butterfly valve in CMP on levee shoulder.

LM Start	4.99	Rating **	C	Issue No.	139
LM End	4.99	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.801606 °	38.801606 °
				-121.709499 °	-121.709499 °
DWR ID	DWR_RD1500_01_f_2018_139				
Comment Code					
EQ : Equipment					
Inspector Comment					
There are beehives at the landside toe.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	5.14	Rating **	M	Issue No.	108
LM End	5.14	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.801962 °	38.801962 °
				-121.712118 °	-121.712118 °
DWR ID	DWR_RD1500_01_f_2015_108				
Comment Code					
EQ : Equipment					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD1500_189_108_20190829_00047.jpg



View of the equipment on the landward side of the levee looking upstream. Fall 2015.

LM Start	5.19	Rating **	M	Issue No.	2558	
LM End	5.19	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.802322 °	38.802322 °	
				-121.712908 °	-121.712908 °	
DWR ID	20041					
Comment Code						
Inspector Comment						
DS_ID:20041 FS_ID:28913 EP_NO: 10056 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Depression on landside levee slope around siphon breaker due to leakage.Siphon breaker needs protection. FIELD_STRUCT_DESC: 18-inch steel irrigation discharge pipe through the levee, 4 feet below the crown. 1.5-inch conduit through the levee, 20 feet below the crown. Slant pump in a corrugated metal pump house on the waterside (WS). Wooden steps on the WS slope. Siphon breaker on the landside (LS) slope. 5-foot by 5-foot concrete distribution box at the LS toe. (18-inch steel irrigation discharge pipe and all other elements of this irrigation structure retained under Automatic Board Order (ABO) issued as Permit No. 10056, 1974 - Philip Leiser). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 5.23)]. FS Date: 1/9/2014						

Photo 1 of 3 : UCIP_FA_2019_28913_53184.jpg



WS view: wooden steps to pump house on levee berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	5.19	Rating **	M	Issue No.	2558 (cont)	
LM End	5.19	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.802322°	38.802322°	
				-121.712908°	-121.712908°	
DWR ID	20041					
Comment Code						
Inspector Comment						
DS_ID:20041 FS_ID:28913 EP_NO: 10056 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Depression on landside levee slope around siphon breaker due to leakage.Siphon breaker needs protection. FIELD_STRUCT_DESC: 18-inch steel irrigation discharge pipe through the levee, 4 feet below the crown. 1.5-inch conduit through the levee, 20 feet below the crown. Slant pump in a corrugated metal pump house on the waterside (WS). Wooden steps on the WS slope. Siphon breaker on the landside (LS) slope. 5-foot by 5-foot concrete distribution box at the LS toe. (18-inch steel irrigation discharge pipe and all other elements of this irrigation structure retained under Automatic Board Order (ABO) issued as Permit No. 10056, 1974 - Philip Leiser). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 5.23)]. FS Date: 1/9/2014						

LM Start	5.19	Rating **	M	Issue No.	2558 (cont)
LM End	5.19	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_28913_53183.jpg



LS view: depression on landside levee slope around siphon breaker due to leakage. Concrete distribution box (top) on levee toe.

Photo 3 of 3 : UCIP_FA_2019_28913_53182.jpg



LS view: leaky and obstructed siphon breaker. Depression around siphon breaker due to leakage.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	5.32	Rating **	U	Issue No.	125
LM End	5.35	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.803181 °	38.803344 °
				-121.715141 °	-121.715616 °
DWR ID	DWR_RD1500_01_f_2016_125				
Comment Code					
FE : Fence					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD1500_189_125_20190829_00062.jpg



View of fence and vegetation on LS slope. Fall 2016.

LM Start	5.61	Rating **	U	Issue No.	52
LM End	5.69	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.803067 °	38.803238 °
				-121.720270 °	-121.721847 °
DWR ID	DWR_RD1500_01_s_2012_52				
Comment Code					
EQ : Equipment					
Inspector Comment					
Sting Rayz Beach Boardwalk Marina on the waterside berm should move equipment stored on levee toe and crown.					

Photo 1 of 2 : FA_2019_RD1500_189_52_20191031_00214.jpg



View of equipment on the crown. Fall 2019.

LM Start	5.61	Rating **	U	Issue No.	52 (cont)
LM End	5.69	Issue Type +	En	Location *	WS

Photo 2 of 2 : FA_2019_RD1500_189_52_20190829_00021.jpg



View of equipment on waterside levee toe looking upstream. Spring 2016.

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	6.24	Rating **	A/W	Issue No.	136
LM End	6.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.811093 °	38.811093 °
				-121.722790 °	-121.722790 °
DWR ID	DWR_RD1500_01_f_2018_136				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
There is minor runoff on the waterside slope. Recommend monitoring.					

No Photos

LM Start	6.48	Rating **	M	Issue No.	2559
LM End	6.48	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.814501 °	38.814501 °
				-121.723040 °	-121.723040 °
DWR ID	20044				
Comment Code					
Inspector Comment					
DS_ID:20044 FS_ID:28286 EP_NO: 10074 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Not found- 36-inch concrete standpipe on landside. 2-inch conduit through the levee.Pipe description does not match with field observaion. It needs review and more info from LMA.A capped pipe, air vent, and butterfly valve found on landside toe. But, it is not clear whether these belongs to this crossing. FIELD_STRUCT_DESC: 30-inch steel irrigation discharge pipe and electrical conduit through the levee, 13 feet below the crown. Slide gate in a 42-inch corrugated metal pipe (CMP) riser on the berm. Slant pump on steel pump platform on the berm. Installed by USACE in 1959. (30-inch steel irrigation discharge pipe and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10074, 1974 - T. I. and T. Company). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 6.53)]. FS Date: 1/9/2014					

Photo 1 of 2 : UCIP_FA_2019_28286_52059.jpg



WS view: CMP riser with slide gate and slant pump on steel platform on levee berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	6.48	Rating **	M	Issue No.	2559 (cont)	
LM End	6.48	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.814501 °	38.814501 °	
				-121.723040 °	-121.723040 °	
DWR ID	20044					
Comment Code						
Inspector Comment						
DS_ID:20044 FS_ID:28286 EP_NO: 10074 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Not found- 36-inch concrete standpipe on landside. 2-inch conduit through the levee.Pipe description does not match with field observaion. It needs review and more info from LMA.A capped pipe, air vent, and butterfly valve found on landside toe. But, it is not clear whether these belongs to this crossing. FIELD_STRUCT_DESC: 30-inch steel irrigation discharge pipe and electrical conduit through the levee, 13 feet below the crown. Slide gate in a 42-inch corrugated metal pipe (CMP) riser on the berm. Slant pump on steel pump platform on the berm. Installed by USACE in 1959. (30-inch steel irrigation discharge pipe and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10074, 1974 - T. I. and T. Company). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 6.53)]. FS Date: 1/9/2014						

Photo 2 of 2 : UCIP_FA_2019_28286_52058.jpg



LS view: a capped pipe on levee toe. It is not clear whether this pipe is connected to the CMP riser on waterside.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	7.15	Rating **	M	Issue No.	2560	
LM End	7.15	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.824208 °	38.824208 °	
				-121.722793 °	-121.722793 °	
DWR ID	20047					
Comment Code						
Inspector Comment						
DS_ID:20047 FS_ID:28923 EP_NO: 10048 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: An abandoned pipe. Highly deteriorated pipe on river bank.Needs proper abandonment.Not found- Siphon breaker at landward levee toe. FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel irrigation discharge pipe and a 1-inch conduit through the levee, 4.5 feet below the crown. Pump in a metal shed on the riverbank. Gate valve on the waterside (WS) end. Service pole and 24-inch concrete standpipe at the landside (LS) toe. Installed by USACE in 1958. (10-inch steel irrigation discharge pipe through the levee and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10048, 1974 - Virgil J. King) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 7.22)]. FS Date: 1/9/2014						

LM Start	7.15	Rating **	M	Issue No.	2560 (cont)
LM End	7.15	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_28923_53202.jpg



WS view: dilapidated and abandoned CM pump house on berm. Pipe and gate valve also on berm.

Photo 2 of 3 : UCIP_FA_2019_28923_53201.jpg



WS view: deteriorated and abandoned steel pipe on river bank.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	7.15	Rating **	M	Issue No.	2560 (cont)	
LM End	7.15	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.824208 °	38.824208 °	
				-121.722793 °	-121.722793 °	
DWR ID	20047					
Comment Code						
Inspector Comment						
DS_ID:20047 FS_ID:28923 EP_NO: 10048 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: An abandoned pipe. Highly deteriorated pipe on river bank.Needs proper abandonment.Not found- Siphon breaker at landward levee toe. FIELD_STRUCT_DESC: *ABANDONED* 10-inch steel irrigation discharge pipe and a 1-inch conduit through the levee, 4.5 feet below the crown. Pump in a metal shed on the riverbank. Gate valve on the waterside (WS) end. Service pole and 24-inch concrete standpipe at the landside (LS) toe. Installed by USACE in 1958. (10-inch steel irrigation discharge pipe through the levee and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10048, 1974 - Virgil J. King) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 7.22)]. FS Date: 1/9/2014						

Photo 3 of 3 : UCIP_FA_2019_28923_53200.jpg



LS view: service pole and switch board on levee toe. No other appurtenances found on landside.

LM Start	7.18	Rating **	M	Issue No.	134
LM End	7.20	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.824652 °	38.824908 °
				-121.722791 °	-121.722817 °
DWR ID	DWR_RD1500_01_f_2018_134				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	7.49	Rating **	M	Issue No.	16
LM End	7.49	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.828944 °	38.828944 °
				-121.724329 °	-121.724329 °
DWR ID	DWR_RD1500_01_f_2017_16				
Comment Code					
EQ : Equipment					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD1500_189_16_20190829_00005.jpg



View of the equipment along the levee toe on the landward side of the levee looking upstream. Spring 2016.

LM Start	7.72	Rating **	M	Issue No.	2561	
LM End	7.72	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DRAFT DWR UCIP Field Study			38.831638 °		38.831638 °
				-121.726580 °		-121.726580 °
DWR ID	20049					
Comment Code						
Inspector Comment						
DS_ID:20049 FS_ID:50199 EP_NO: 8147 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/29/2016: New pumps installed at LS toe ditch, could not find permit for this work. No signs of leakage or excessive vegetation growth in alignment with the pipe. Riser silted in; recommend installing a lid. Crossing has been downgraded from Urgent to Non-Urgent. (K. Fazel - UCIP)01/10/2014:Not found- slide gate in 48-inch corrugated metal riser at waterside toe.Repair works under way. Contact LMA for repair works information.Sign of leaky pipe and siphon breaker. This needs detailed investigation. (P. Amatya - DWR) FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, 4.8 feet below the crown. Slant pump mounted on a steel structure at the riverbank. 4-foot by 4-foot concrete distribution box at the landside (LS) toe with newly installed pumps with shutoff valves. (Replacement of a discharge pipe through the levee with a new 12-inch steel discharge pipe authorized under Permit No. 8147, 1972 - J. A. Driver). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 7.79)]. FS Date: 8/29/2016						

Photo 1 of 3 : UCIP_FA_2019_50199_53204.jpg



WS view: slant pump on steel platform on end of berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	7.72	Rating **	M	Issue No.	2561 (cont)	
LM End	7.72	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DRAFT DWR UCIP Field Study			38.831638 °		38.831638 °
				-121.726580 °		-121.726580 °
DWR ID	20049					
Comment Code						
Inspector Comment						
DS_ID:20049 FS_ID:50199 EP_NO: 8147 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/29/2016: New pumps installed at LS toe ditch, could not find permit for this work. No signs of leakage or excessive vegetation growth in alignment with the pipe. Riser silted in; recommend installing a lid. Crossing has been downgraded from Urgent to Non-Urgent. (K. Fazel - UCIP)01/10/2014:Not found- slide gate in 48-inch corrugated metal riser at waterside toe.Repair works under way. Contact LMA for repair works information.Sign of leaky pipe and siphon breaker. This needs detailed investigation. (P. Amatya - DWR) FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, 4.8 feet below the crown. Slant pump mounted on a steel structure at the riverbank. 4-foot by 4-foot concrete distribution box at the landside (LS) toe with newly installed pumps with shutoff valves. (Replacement of a discharge pipe through the levee with a new 12-inch steel discharge pipe authorized under Permit No. 8147, 1972 - J. A. Driver). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 7.79)]. FS Date: 8/29/2016						

LM Start	7.72	Rating **	M	Issue No.	2561 (cont)
LM End	7.72	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_50199_53203.jpg



WS view: sign of leakage- excessive vegetation on levee slope.

Photo 3 of 3 : UCIP_FA_2019_50199_53207.jpg



LS view: steel riser with siphon breaker (bottom) and concrete distribution box on levee toe (top).

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	7.96	Rating **	M	Issue No.	2562	
LM End	7.96	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.834260 °	38.834260 °	
				-121.729566 °	-121.729566 °	
DWR ID	20051					
Comment Code						
Inspector Comment						
DS_ID:20051 FS_ID:28323 EP_NO: 13882 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Power pole on landside. 2-inch conduit through the levee. Service box on waterside. Concrete pad on waterside. Not found- Concrete distribution box on landward side; not found- gate valve on waterside. Need proper abandonment. Pipe visible on river bank, waterside levee slope and landside field. FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel irrigation discharge pipe through the levee, 4.9 feet below the crown. 12-inch steel irrigation discharge pipe through the levee, 5 feet below the crown. 1.5-inch electrical conduit through the levee, 4 feet below the crown. Pump at the riverbank. Pump switch and gate valve on the waterside (WS) slope. Meter pole at the landside (LS) toe. Concrete distribution box on the LS. Installed by USACE in 1959. (6-inch steel irrigation discharge pipe through the levee and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10062, 1974 - Pauline Moroni. Installation of a 12-inch steel pipe through the levee authorized under Permit No. 13882, 1984 - Ted A. Moroni). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 8.04)]. FS Date: 1/10/2014						

LM Start	7.96	Rating **	M	Issue No.	2562 (cont)
LM End	7.96	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_28323_52125.jpg



WS view: CMP with air vent (right), concrete pad (left), and switch panel (left) on levee slope.

Photo 2 of 3 : UCIP_FA_2019_28323_52124.jpg



WS view: abandoned steel pipe exposed on river bank.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	7.96	Rating **	M	Issue No.	2562 (cont)							
LM End	7.96	Issue Type +	En	Location *								
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	DRAFT DWR UCIP Field Study		38.834260 °	38.834260 °								
			-121.729566 °	-121.729566 °								
DWR ID	20051											
Comment Code												
Inspector Comment												
DS_ID:20051 FS_ID:28323 EP_NO: 13882 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Power pole on landside. 2-inch conduit through the levee. Service box on waterside. Concrete pad on waterside. Not found- Concrete distribution box on landward side; not found- gate valve on waterside. Need proper abandonment. Pipe visible on river bank, waterside levee slope and landside field. FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel irrigation discharge pipe through the levee, 4.9 feet below the crown. 12-inch steel irrigation discharge pipe through the levee, 5 feet below the crown. 1.5-inch electrical conduit through the levee, 4 feet below the crown. Pump at the riverbank. Pump switch and gate valve on the waterside (WS) slope. Meter pole at the landside (LS) toe. Concrete distribution box on the LS. Installed by USACE in 1959. (6-inch steel irrigation discharge pipe through the levee and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10062, 1974 - Pauline Moroni. Installation of a 12-inch steel pipe through the levee authorized under Permit No. 13882, 1984 - Ted A. Moroni). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 8.04)]. FS Date: 1/10/2014												

Photo 3 of 3 : UCIP_FA_2019_28323_52123.jpg



LS view: outlet steel pipe across the residential road off the levee toe on field.

LM Start	8.04	Rating **	M	Issue No.	109							
LM End	8.04	Issue Type +	En	Location *	LS							
Category	Earthen Levee		GPS Latitude/Longitude									
			Start	End								
Item	Vegetation		38.835149 °	38.835149 °								
			-121.730454 °	-121.730454 °								
DWR ID	DWR_RD1500_01_f_2019_109											
Comment Code												
V6 : Landscaping												
Inspector Comment												

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	8.35	Rating **	M	Issue No.	2563	
LM End	8.35	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.839446 °	38.839446 °	
				-121.728901 °	-121.728901 °	
DWR ID	20053					
Comment Code						
Inspector Comment						
DS_ID:20053 FS_ID:28324 EP_NO: 10064 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Looks abandoned as service pole not found.May need proper abandonment. FIELD_STRUCT_DESC: 24-inch by 24-inch concrete box irrigation discharge culvert through the levee, 13 feet below the crown. Two concrete cutoff walls. Pump on a 6-foot-diameter concrete pump well on the berm. Slide gate in a 42-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. 4.5-foot by 6-foot concrete distribution box at the landside (LS) toe. Installed by Reclamation District No. 1500 in 1920. Improvements made by USACE in 1955. (24-inch by 24-inch concrete box irrigation discharge culvert through the levee and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10064, 1974 - Paul Donald Nix). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 8.44), 36-inch pipe referenced]. FS Date: 1/10/2014						

LM Start	8.35	Rating **	M	Issue No.	2563 (cont)
LM End	8.35	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_28324_52131.jpg



WS view: slide gate in CMP riser on levee slope. Looks abandoned.

Photo 2 of 3 : UCIP_FA_2019_28324_52130.jpg



WS view: vertical pump on concrete sump on levee berm. Looks abandoned.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	8.35	Rating **	M	Issue No.	2563 (cont)	
LM End	8.35	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.839446°	38.839446°	
				-121.728901°	-121.728901°	
DWR ID	20053					
Comment Code						
Inspector Comment						
DS_ID:20053 FS_ID:28324 EP_NO: 10064 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Looks abandoned as service pole not found.May need proper abandonment. FIELD_STRUCT_DESC: 24-inch by 24-inch concrete box irrigation discharge culvert through the levee, 13 feet below the crown. Two concrete cutoff walls. Pump on a 6-foot-diameter concrete pump well on the berm. Slide gate in a 42-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. 4.5-foot by 6-foot concrete distribution box at the landside (LS) toe. Installed by Reclamation District No. 1500 in 1920. Improvements made by USACE in 1955. (24-inch by 24-inch concrete box irrigation discharge culvert through the levee and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10064, 1974 - Paul Donald Nix). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 8.44), 36-inch pipe referenced]. FS Date: 1/10/2014						

Photo 3 of 3 : UCIP_FA_2019_28324_52129.jpg



LS view: concrete distribution box on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	8.67	Rating **	M	Issue No.	2564	
LM End	8.67	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.842218 °	38.842218 °	
				-121.725728 °	-121.725728 °	
DWR ID	20054					
Comment Code						
Inspector Comment						
DS_ID:20054 FS_ID:28343 EP_NO: 5518 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Not found- siphon breaker on landward shoulder. Pump removed. FIELD_STRUCT_DESC: 10-inch steel irrigation discharge pipe through the levee, 2.5 feet below the crown. Corrugated metal cutoff wall. Pump on concrete platform on the riverbank. Siphon breaker on the landside (LS) shoulder. 1-inch conduit installed in joint trench. Meter pole at the LS toe. Pipe discharges into a 4-foot by 4-foot concrete distribution box on the LS. (Installation of a 10-inch irrigation discharge pipe through the levee with a pump and a discharge box authorized under Permit No. 5518, 1966 - Irving E. Bundock, [RM 92.9]). FS Date: 1/10/2014						

LM Start	8.67	Rating **	M	Issue No.	2564 (cont)
LM End	8.67	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_28343_52145.jpg



WS view: U type concrete headwall, pipe, and pump on river bank.

Photo 2 of 3 : UCIP_FA_2019_28343_52144.jpg



WS view: pipe, pump (removed and capped with plywood), and gate valve on river bank.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Fall 2019


Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

Photo 3 of 3 : UCIP_FA_2019_28343_52143.jpg



LS view: concrete distribution box on landside toe.

Photo 1 of 1 : FA_2019_RD1500_189_18_20190829_00006.jpg



The corner of the building has encroached into the toe.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	8.95	Rating **	M	Issue No.	2565
LM End	8.95	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.845578 °	38.845578 °
				-121.728406 °	-121.728406 °
DWR ID	20055				
Comment Code					
Inspector Comment					
DS_ID:20055 FS_ID:28363 EP_NO: 8503 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Looks abandoned. No pump found on WS.New well near landside.May need proper abandonment.Exposed pipe on waterside. Found steel plate closed pipe on landside. FIELD_STRUCT_DESC: *ABANDONED* 12-inch steel irrigation discharge pipe through the levee, 3.8 feet below the crown. Pump on concrete pad with headwall at the riverbank. Siphon breaker in a 24-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. 1.25-inch conduit through the levee, 3 feet below the crown. Meter pole with switch panel at the landside (LS) toe. Concrete distribution box at the LS toe. (12-inch steel irrigation discharge pipe through the levee and slant pump retained under Permit No. 8503, 1972 - James T. Munson). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 9.04), 10-inch pipe referenced]. FS Date: 1/10/2014					

LM Start	8.95	Rating **	M	Issue No.	2565 (cont)
LM End	8.95	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_28363_52167.jpg



WS view: siphon breaker in CMP riser on levee slope.

Photo 2 of 3 : UCIP_FA_2019_28363_52166.jpg



WS view: inlet steel pipe with gate valve on river bank.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	8.95	Rating **	M	Issue No.	2565 (cont)	
LM End	8.95	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.845578 °	38.845578 °	
				-121.728406 °	-121.728406 °	
DWR ID	20055					
Comment Code						
Inspector Comment						
DS_ID:20055 FS_ID:28363 EP_NO: 8503 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Looks abandoned. No pump found on WS.New well near landside.May need proper abandonment.Exposed pipe on waterside. Found steel plate closed pipe on landside. FIELD_STRUCT_DESC: *ABANDONED* 12-inch steel irrigation discharge pipe through the levee, 3.8 feet below the crown. Pump on concrete pad with headwall at the riverbank. Siphon breaker in a 24-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. 1.25-inch conduit through the levee, 3 feet below the crown. Meter pole with switch panel at the landside (LS) toe. Concrete distribution box at the LS toe. (12-inch steel irrigation discharge pipe through the levee and slant pump retained under Permit No. 8503, 1972 - James T. Munson). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 9.04), 10-inch pipe referenced]. FS Date: 1/10/2014						

Photo 3 of 3 : UCIP_FA_2019_28363_52165.jpg



LS view: pipe end capped with steel plate on levee toe. Looks abandoned.

LM Start	9.03	Rating **	M	Issue No.	133
LM End	9.03	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.846762 °	38.846762 °
				-121.728141 °	-121.728141 °
DWR ID	DWR_RD1500_01_f_2018_133				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Fallen walnut tree from orchard is blocking access at the landside toe.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Fall 2019

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

Photo 1 of 3 : UCIP_FA_2019_28364_52174.jpg

WS view: slant pump on steel platform on levee berm. Excessive oil leak from the pump.

Photo 2 of 3 : UCIP_FA_2019_28364_52175.jpg



LS view: air vent in steel pipe riser on levee slope.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	9.13	Rating **	M	Issue No.	2566 (cont)	
LM End	9.13	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.847841 °	38.847841 °	
				-121.727172 °	-121.727172 °	
DWR ID	20056					
Comment Code						
Inspector Comment						
DS_ID:20056 FS_ID:28364 EP_NO: 5598 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Not found- Wood headwall 18 ft from landward toe. Not found- Flap gate on landward side.No outlet structure found. Only a capped pipe found, but not sure whether it is connected to the crossing. FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe and electrical conduit through the levee, 4.8 feet below the crown. One metal cutoff wall. Slant pump on steel structure on the berm. Siphon breaker in an 8.5-inch steel pipe riser on the landside (LS) shoulder. Meter pole on the LS toe. Wooden headwall with flap gate off the LS toe. Pipe discharges into field. Installed in 1967. (Construction of a pumping plant and installation of a discharge pipe through the levee authorized under Permit No. 5598, 1966 - Arthur C. James Jr. Existing encroachments retained under Permit No. 8505, 1972 - Arthur C. James Jr.). [Additional Reference(s): DWR Levee Log, 2005]. FS Date: 1/10/2014						

Photo 3 of 3 : UCIP_FA_2019_28364_52173.jpg



LS view: capped outlet pipe on levee toe.

LM Start	9.26	Rating **	U	Issue No.	132
LM End	9.33	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.849032 °	38.849619 °
				-121.725126 °	-121.724161 °
DWR ID	DWR_RD1500_01_f_2018_132				
Comment Code					
UR : Urban					
Inspector Comment					
Multiple trailers and constructed shacks on the waterside berm are taking up long-term residence.					

Photo 1 of 3 : FA_2019_RD1500_189_132_20191031_00212.jpg

View of trailers on waterside shoulder and berm near Donahue Road.
Fall 2019.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Reclamation District No. 1500 Sutter Basin

* Location	** Rating	+ Issue Type
LS : Land Side	A : Acceptable	Ma : Maintenance Deficiency
N/A : Not Applicable	N : Not Inspected/Rated	Ob : Design & System Obsolescence
WS : Water Side	M : Minimally Acceptable	En : Enforcement
CR : Crown	U : Unacceptable	
	A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	9.40	Rating **	A/W	Issue No.	74 (cont)
LM End	9.57	Issue Type +	Ob	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.850267 °	38.852564 °
				-121.723275 °	-121.723179 °
DWR ID	DWR_RD1500_01_s_2012_74				
Comment Code					
V8 : Environmental Requirements.					
Inspector Comment					

Photo 2 of 2 : FA_2019_RD1500_189_74_20190829_00027.jpg



Sign for the revegetation site by USACE.

LM Start	9.66	Rating **	M	Issue No.	2567	
LM End	9.66	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.853364 °	38.853364 °	
				-121.724617 °	-121.724617 °	
DWR ID	20057					
Comment Code						
Inspector Comment						
DS_ID:20057 FS_ID:28365 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Looks abandoned. Pump has been removed. No outlet pipe found. Not found- Wooden service panel and 3x5 foot concrete distribution box at landward shoulder.May need proper abandonment. FIELD_STRUCT_DESC: 14-inch steel irrigation discharge pipe through the levee, 4.2 feet below the crown. Pump and gate valve on a concrete pump platform on the bank. Siphon breaker in a 24-inch corrugated metal pipe (CMP) riser on the waterside (WS) shoulder. Wooden switch panel and pole on the WS slope. 3-foot by 5-foot concrete distribution box at the landside (LS) toe. (14-inch steel irrigation discharge pipe through the levee, pump, and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10069, 1974 - Robert Reel). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 9.77)]. FS Date: 1/10/2014						

Photo 1 of 3 : UCIP_FA_2019_28365_52182.jpg



WS view: CMP riser with siphon breaker on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	9.66	Rating **	M	Issue No.	2567 (cont)	
LM End	9.66	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.853364 °	38.853364 °	
				-121.724617 °	-121.724617 °	
DWR ID	20057					
Comment Code						
Inspector Comment						
DS_ID:20057 FS_ID:28365 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Looks abandoned. Pump has been removed. No outlet pipe found. Not found- Wooden service panel and 3x5 foot concrete distribution box at landward shoulder.May need proper abandonment. FIELD_STRUCT_DESC: 14-inch steel irrigation discharge pipe through the levee, 4.2 feet below the crown. Pump and gate valve on a concrete pump platform on the bank. Siphon breaker in a 24-inch corrugated metal pipe (CMP) riser on the waterside (WS) shoulder. Wooden switch panel and pole on the WS slope. 3-foot by 5-foot concrete distribution box at the landside (LS) toe. (14-inch steel irrigation discharge pipe through the levee, pump, and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10069, 1974 - Robert Reel). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 9.77)]. FS Date: 1/10/2014						

LM Start	9.66	Rating **	M	Issue No.	2567 (cont)
LM End	9.66	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_28365_52180.jpg



WS view: siphon breaker obstructed by dumped-trash in CMP riser.

Photo 3 of 3 : UCIP_FA_2019_28365_52179.jpg



LS view: U type concrete headwall, pipe, gate valve, and pump (removed and plugged with plywood) on river bank.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	9.71	Rating **	A/W	Issue No.	162
LM End	9.71	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.853564 °	38.853564 °
				-121.725379 °	-121.725379 °
DWR ID	DWR_RD1500_01_s_2017_162				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
The area is heavily accessed by trailer residents and fishermen. Recommend monitoring.					

Photo 1 of 1 : FA_2019_RD1500_189_162_20190829_00071.jpg



View of slope stability on waterside slope. Spring 2017.

LM Start	10.12	Rating **	M	Issue No.	2568
LM End	10.12	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.857853 °	38.857853 °
				-121.728222 °	-121.728222 °
DWR ID	20058				
Comment Code					
Inspector Comment					
DS_ID:20058 FS_ID:50069 EP_NO: 10068 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 01/10/2014Surface erosion along pipe alignment on landside.30-inch concrete pipe in CMP riser on waterside. 30-inch x 24-inch concrete culvert on landside. FIELD_STRUCT_DESC: 24-inch by 30-inch reinforced concrete box irrigation discharge culvert diagonally through the levee, 13 feet below the crown. Two concrete cutoff walls. Slant pump on the riverbank. Slide gate in a 40-inch by 40-inch concrete surge box on the berm. Power pole and switch panel on the waterside (WS) slope. Concrete distribution box at the landside (LS) toe. Installed by Reclamation District No. 1500 in 1920. (24-inch by 30-inch reinforced concrete box irrigation discharge culvert diagonally through the levee, slant pump, and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10068, 1974 - Cecil Reel). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 10.22)]. FS Date: 1/10/2014					

Photo 1 of 3 : UCIP_FA_2019_50069_52188.jpg



WS view: pipe and pump with appurtenances on river bank. Pump removed and plugged with plywood.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	10.12	Rating **	M	Issue No.	2568 (cont)	
LM End	10.12	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.857853 °	38.857853 °	
				-121.728222 °	-121.728222 °	
DWR ID	20058					
Comment Code						
Inspector Comment						
DS_ID:20058 FS_ID:50069 EP_NO: 10068 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 01/10/2014Surface erosion along pipe alignment on landside.30-inch concrete pipe in CMP riser on waterside. 30-inch x 24-inch concrete culvert on landside. FIELD_STRUCT_DESC: 24-inch by 30-inch reinforced concrete box irrigation discharge culvert diagonally through the levee, 13 feet below the crown. Two concrete cutoff walls. Slant pump on the riverbank. Slide gate in a 40-inch by 40-inch concrete surge box on the berm. Power pole and switch panel on the waterside (WS) slope. Concrete distribution box at the landside (LS) toe. Installed by Reclamation District No. 1500 in 1920. (24-inch by 30-inch reinforced concrete box irrigation discharge culvert diagonally through the levee, slant pump, and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10068, 1974 - Cecil Reel). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 10.22)]. FS Date: 1/10/2014						

LM Start	10.12	Rating **	M	Issue No.	2568 (cont)
LM End	10.12	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_50069_52189.jpg



LS view: surface erosion along pipe alignment on landside.

Photo 3 of 3 : UCIP_FA_2019_50069_52192.jpg



LS view: outlet of concrete box culvert on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	10.19	Rating **	M	Issue No.	104
LM End	10.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		38.858839 °	38.858839 °	
			-121.728650 °	-121.728650 °	
DWR ID	DWR_RD1500_01_f_2019_104				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes on the landside slope.					

No Photos

LM Start	10.25	Rating **	M	Issue No.	115
LM End	10.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		38.859585 °	38.859585 °	
			-121.729188 °	-121.729188 °	
DWR ID	DWR_RD1500_01_f_2018_115				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
There are active rodent holes at the landside toe.					

No Photos

*** Location**
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

**** Rating**
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	10.70	Rating **	M	Issue No.	2569
LM End	10.70	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.861550 °	38.861550 °
				-121.737006 °	-121.737006 °
DWR ID	20059				
Comment Code					
Inspector Comment					
DS_ID:20059 FS_ID:28925 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pump removed.Obstructed siphon breaker in CMP riser on landside. FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, 4.3 feet below the crown. One cutoff wall. 1.5-inch conduit through the levee, 2 feet below the crown. Slant type centrifugal pumping plant on the riverbank removed during the winter months and a steel plate is bolted to the end of the pipe. Gate valve on the waterside (WS). Siphon breaker in a 24-inch corrugated metal pipe (CMP) riser on the landside (LS) shoulder. 8-foot by 6-foot, inside measurements, concrete distribution box and meter pole with switch panel at the LS toe. (12-inch steel irrigation discharge pipe through the levee and slant type centrifugal pumping plant retained under Permit No. 8506, 1972 - Eugene C. Reel et al.). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 10.81)]. FS Date: 1/10/2014					

LM Start	10.70	Rating **	M	Issue No.	2569 (cont)
LM End	10.70	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_28925_53210.jpg



WS view: pipe, pump (removed and plugged with plywood), headwall, and appurtenances on river bank.

Photo 2 of 3 : UCIP_FA_2019_28925_53209.jpg



LS view: siphon breaker in CMP riser (bottom) on levee slope and concrete distribution box (top) on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	10.70	Rating **	M	Issue No.	2569 (cont)	
LM End	10.70	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.861550 °	38.861550 °	
				-121.737006 °	-121.737006 °	
DWR ID	20059					
Comment Code						
Inspector Comment						
DS_ID:20059 FS_ID:28925 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pump removed.Obstructed siphon breaker in CMP riser on landside. FIELD_STRUCT_DESC: 12-inch steel irrigation discharge pipe through the levee, 4.3 feet below the crown. One cutoff wall. 1.5-inch conduit through the levee, 2 feet below the crown. Slant type centrifugal pumping plant on the riverbank removed during the winter months and a steel plate is bolted to the end of the pipe. Gate valve on the waterside (WS). Siphon breaker in a 24-inch corrugated metal pipe (CMP) riser on the landside (LS) shoulder. 8-foot by 6-foot, inside measurements, concrete distribution box and meter pole with switch panel at the LS toe. (12-inch steel irrigation discharge pipe through the levee and slant type centrifugal pumping plant retained under Permit No. 8506, 1972 - Eugene C. Reel et al.). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 10.81)]. FS Date: 1/10/2014						

Photo 3 of 3 : UCIP_FA_2019_28925_53208.jpg



LS view: obstructed siphon breaker in CMP riser (bottom) on levee slope.

LM Start	11.30	Rating **	M	Issue No.	20
LM End	11.30	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.866383 °	38.866383 °
				-121.745911 °	-121.745911 °
DWR ID	DWR_RD1500_01_s_2012_20				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Permitted landscape needs maintenance. (PN: 10041)					

Photo 1 of 1 : FA_2019_RD1500_189_20_20190829_00007.jpg



View of the landscaping on the landward side of the levee looking upstream. Fall 2015.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	11.32	Rating **	M	Issue No.	101
LM End	11.32	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.866726 °	38.866726 °
				-121.746114 °	-121.746114 °
DWR ID	DWR_RD1500_01_f_2019_101				
Comment Code					
ST : Stairway					
Inspector Comment					
Wooden stairway on the landside slope.					

No Photos

LM Start	11.45	Rating **	M	Issue No.	2570	
LM End	11.45	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.868544 °	38.868544 °	
				-121.746471 °	-121.746471 °	
DWR ID	20061					
Comment Code						
Inspector Comment						
DS_ID:20061 FS_ID:50198 EP_NO: 10041 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/29/2016 Depressions cited previously are a make-shift staircase and not an indication of a problem with pipe. Pipe partiallay exposed on LS slope which should be backfilled. Crossing has been downgraded from Urgent to Non-Urgent. (K. Fazel - UCIP)01/10/2014 Depressions on both sides of the levee slope. It needs more investigation.Pump removed. (P. Amatya - DWR) FIELD_STRUCT_DESC: 8-inch steel irrigation discharge pipe through the levee, 4 feet below the crown. One corrugated metal cutoff wall. Pump and gate valve on a concrete pump platform on the riverbank. Corrugated metal switch house on the waterside (WS) slope. Meter pole on the WS shoulder. 8-foot by 6-foot, inside dimensions, concrete distribution box on the landside (LS). Overhead power line crosses the levee. Pole at the LS toe. Installed by USACE in 1952. (8-inch steel irrigation discharge pipe through the levee, pump, and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10041, 1974 - William J. Duffy Jr.) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 11.57)]. FS Date: 8/29/2016						

Photo 1 of 3 : UCIP_FA_2019_50198_52220.jpg



WS view: pipe, pump (removed), headwall, and appurtenances on river bank.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	11.45	Rating **	M	Issue No.	2570 (cont)	
LM End	11.45	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.868544 °	38.868544 °	
				-121.746471 °	-121.746471 °	
DWR ID	20061					
Comment Code						
Inspector Comment						
DS_ID:20061 FS_ID:50198 EP_NO: 10041 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/29/2016 Depressions cited previously are a make-shift staircase and not an indication of a problem with pipe. Pipe partiallay exposed on LS slope which should be backfilled. Crossing has been downgraded from Urgent to Non-Urgent. (K. Fazel - UCIP)01/10/2014 Depressions on both sides of the levee slope. It needs more investigation.Pump removed. (P. Amatya - DWR) FIELD_STRUCT_DESC: 8-inch steel irrigation discharge pipe through the levee, 4 feet below the crown. One corrugated metal cutoff wall. Pump and gate valve on a concrete pump platform on the riverbank. Corrugated metal switch house on the waterside (WS) slope. Meter pole on the WS shoulder. 8-foot by 6-foot, inside dimensions, concrete distribution box on the landside (LS). Overhead power line crosses the levee. Pole at the LS toe. Installed by USACE in 1952. (8-inch steel irrigation discharge pipe through the levee, pump, and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10041, 1974 - William J. Duffy Jr.) [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 11.57)]. FS Date: 8/29/2016						

LM Start	11.45	Rating **	M	Issue No.	2570 (cont)
LM End	11.45	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_50198_52219.jpg



LS view: depressions along the pipe alignment on levee slope. It needs detailed investigation.

Photo 3 of 3 : UCIP_FA_2019_50198_52221.jpg



LS view: concrete distribution box on levee toe. Exposed pipe and depression (top) visible on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	11.45	Rating **	M	Issue No.	114
LM End	11.45	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.868577 °	38.868577 °
				-121.746487 °	-121.746487 °
DWR ID	DWR_RD1500_01_f_2015_114				
Comment Code					
ST : Stairway					
Inspector Comment					
Landowner has dug stairs on the landside slope to irrigation equipment.					

Photo 1 of 3 : FA_2019_RD1500_189_114_20190829_00049.jpg



Perspective view of the concrete box on the landward side of the levee looking upstream. Fall 2015.

LM Start	11.45	Rating **	M	Issue No.	114 (cont)
LM End	11.45	Issue Type +	En	Location *	LS

Photo 2 of 3 : FA_2019_RD1500_189_114_20190829_00050.jpg



There is erosion at the levee toe around the concrete box. There are also stairs leading down the slope. Fall 2015.

LM Start	11.45	Rating **	M	Issue No.	114 (cont)
LM End	11.45	Issue Type +	En	Location *	LS

Photo 3 of 3 : FA_2019_RD1500_189_114_20190829_00051.jpg



There is slight erosion on the waterward side of the levee where the pipe seems to run through the levee. Fall 2015.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	11.64	Rating **	M	Issue No.	97
LM End	11.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.871281 °	38.871281 °
				-121.747215 °	-121.747215 °
DWR ID	DWR_RD1500_01_f_2019_97				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Ruts on the landside slope.					

No Photos

LM Start	11.80	Rating **	A/W	Issue No.	88
LM End	12.26	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.871848 °	38.869139 °
				-121.749349 °	-121.757108 °
DWR ID	DWR_RD1500_01_f_2018_88				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 95.8 L					
Status: Eroding					
2017 Field Notes: Sites 95.8 and 96.2 combined.					
Site History: 1997 - No toe on the large upstream rubble (mix of broken concrete, bricks, rock, and steal) - should be replaced. Oversized bank. 2001 - New slump at the downstream end. 2003 - Some minor bank retreat at the downstream end. 2004 - Some new retreat at the downstream end. 2006 - Some new erosion, mainly on the steep slope and scarps. (Pumping station is not part of the erosion site.) 2010 - Minor new erosion. 2011 - Minor new erosion at the toe. 2015 - Fresh slumping					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	12.00	Rating **	M	Issue No.	2571
LM End	12.00	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP Field Study		38.870780 °	38.870780 °	
			-121.752630 °	-121.752630 °	
DWR ID	20008				

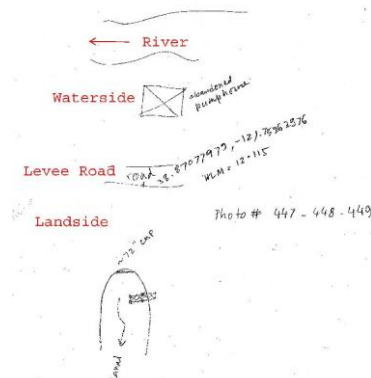
Comment Code

Inspector Comment

DS_ID:20008
FS_ID:41744
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Indicator Found
UCIP Comments: An abandoned pump house on waterside and a 72-inch corrugated metal pipe on landside. The pipe discharges into irrigation ditch (canal). Water was flowing during the field visit. Needs to verify from LMA whether this pipe is through the levee or not.
FIELD_STRUCT_DESC: [State Ranch Bend Pumping Plant] 1 of 2: 36-inch by 42-inch reinforced concrete irrigation discharge culvert under the levee, 17 feet below the crown. Two concrete cutoff walls. Vertical pump on the riverbank. Slide gate on the waterside (WS) end. Wooden slide gate at the landside (LS) toe. Installed by USACE in 1947. (36-inch by 42-inch reinforced concrete irrigation discharge culvert under the levee, vertical pump, and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10073, 1974 - Sutter Mutual Water Company, [Station 356+02]. To comply with Condition No. TWENTY of Board Order No. 9809 with plans to remove the old Pumping Plant No. 1 authorized under Permit No. 9809-A, 1976 - Sutter Mutual Water Company). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 128, March 1960, (HLM 12.12), two 48-inch by 42-inch concrete culverts referenced].
FS Date: 1/10/2014

LM Start	12.00	Rating **	M	Issue No.	2571 (cont)
LM End	12.00	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_41744_51343.jpg



Sketch of Utility Crossing @HLM 12.115

Photo 2 of 3 : UCIP_FA_2019_41744_51345.jpg



WS view: abandoned concrete pump house. No pump and pipe found.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	12.00	Rating **	M	Issue No.	2571 (cont)	
LM End	12.00	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.870780 °	38.870780 °	
				-121.752630 °	-121.752630 °	
DWR ID	20008					
Comment Code						
Inspector Comment						
DS_ID:20008 FS_ID:41744 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: An abandoned pump house on waterside and a 72-inch corrugated metal pipe on landside. The pipe discharges into irrigation ditch (canal). Water was flowing during the field visit. Needs to verify from LMA whether this pipe is through the levee or not. FIELD_STRUCT_DESC: [State Ranch Bend Pumping Plant] 1 of 2: 36-inch by 42-inch reinforced concrete irrigation discharge culvert under the levee, 17 feet below the crown. Two concrete cutoff walls. Vertical pump on the riverbank. Slide gate on the waterside (WS) end. Wooden slide gate at the landside (LS) toe. Installed by USACE in 1947. (36-inch by 42-inch reinforced concrete irrigation discharge culvert under the levee, vertical pump, and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10073, 1974 - Sutter Mutual Water Company, [Station 356+02]. To comply with Condition No. TWENTY of Board Order No. 9809 with plans to remove the old Pumping Plant No. 1 authorized under Permit No. 9809-A, 1976 - Sutter Mutual Water Company). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 128, March 1960, (HLM 12.12), two 48-inch by 42-inch concrete culverts referenced]. FS Date: 1/10/2014						

Photo 3 of 3 : UCIP_FA_2019_41744_51344.jpg



LS view: overview of irrigation ditch on toe of levee.

LM Start	12.01	Rating **	M	Issue No.	116
LM End	12.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.870730 °	38.870730 °
				-121.752908 °	-121.752908 °
DWR ID	DWR_RD1500_01_s_2017_116				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
There is runoff erosion on the landside levee slope.					

Photo 1 of 1 : FA_2019_RD1500_189_116_20190829_00052.jpg



View of erosion on landside slope. Spring 2017.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	12.42	Rating **	M	Issue No.	24
LM End	12.53	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.868834 °	38.867492 °
				-121.760014 °	-121.760903 °
DWR ID	DWR_RD1500_01_s_2012_24				
Comment Code					
EQ : Equipment					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD1500_189_24_20190829_00008.jpg



View of the equipment on the landward side of the levee looking upstream. Fall 2015.

LM Start	12.55	Rating **	M	Issue No.	2572	
LM End	12.55	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.867254 °	38.867254 °	
				-121.761212 °	-121.761212 °	
DWR ID	20063					
Comment Code						
Inspector Comment						
DS_ID:20063 FS_ID:50197 EP_NO: 10061 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/29/2016 Same as last inspection. (K. Fazel - UCIP)01/10/2014 Needs proper abandonement. (P. Amatya - DWR) FIELD_STRUCT_DESC: *ABANDONED* 18-inch corrugated metal gravity drainage pipe through the levee, 15 feet below the crown. Slide gate in a 4-foot by 4-foot concrete box at the waterside (WS) toe. Concrete box at the landside (LS) toe. Pipe crosses overflow area to the river. Installed by USACE in 1944. (18-inch corrugated metal gravity drainage pipe through the levee and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10061, 1974 - Roger L. Matteoli). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 12.69)]. FS Date: 8/29/2016						

Photo 1 of 3 : UCIP_FA_2019_50197_52425.jpg



WS view: slide gate (left) in concrete box at levee toe. Slide gate and the box mostly buried.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	12.55	Rating **	M	Issue No.	2572 (cont)	
LM End	12.55	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.867254 °	38.867254 °	
				-121.761212 °	-121.761212 °	
DWR ID	20063					
Comment Code						
Inspector Comment						
DS_ID:20063 FS_ID:50197 EP_NO: 10061 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/29/2016 Same as last inspection. (K. Fazel - UCIP)01/10/2014 Needs proper abandonment. (P. Amatya - DWR) FIELD_STRUCT_DESC: *ABANDONED* 18-inch corrugated metal gravity drainage pipe through the levee, 15 feet below the crown. Slide gate in a 4-foot by 4-foot concrete box at the waterside (WS) toe. Concrete box at the landside (LS) toe. Pipe crosses overflow area to the river. Installed by USACE in 1944. (18-inch corrugated metal gravity drainage pipe through the levee and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10061, 1974 - Roger L. Matteoli). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 12.69)]. FS Date: 8/29/2016						

LM Start	12.55	Rating **	M	Issue No.	2572 (cont)
LM End	12.55	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_50197_52424.jpg



LS view: concrete intake box on levee toe.

Photo 3 of 3 : UCIP_FA_2019_50197_52423.jpg



LS view: silted CMP in concrete intake box on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	13.78	Rating **	M	Issue No.	119
LM End	13.82	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.859679 °	38.859201 °
				-121.780862 °	-121.781276 °
DWR ID	DWR_RD1500_01_f_2015_119				
Comment Code					
EQ : Equipment					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD1500_189_119_20190829_00056.jpg



View of the equipment on the crown of the levee looking upstream. Fall 2015.

LM Start	13.96	Rating **	M	Issue No.	28
LM End	13.96	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.857625 °	38.857625 °
				-121.782832 °	-121.782832 °
DWR ID	DWR_RD1500_01_s_2012_28				
Comment Code					
EQ : Equipment					
Inspector Comment					
Equipment are on the waterside shoulder but does not obstruct access.					

Photo 1 of 1 : FA_2019_RD1500_189_28_20190829_00011.jpg



View of the equipment on the crown side of the levee looking upstream. Fall 2015.

LM Start	13.98	Rating **	A/W	Issue No.	89
LM End	14.28	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.857239 °	38.861899 °
				-121.783771 °	-121.784057 °
DWR ID	DWR_RD1500_01_f_2018_89				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 99.0 L					
Status: Eroding					
2017 Field Notes: Rock continues to unravel.					
Site History: 1997 - Intermittent toe failure of the hand placed riprap;					
failure of toe materials.					

Photo 1 of 1 : FA_2019_RD1500_189_89_20190829_00036.jpg



USACE 2013 Photo #1

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	14.17	Rating **	M	Issue No.	91
LM End	14.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.860281 °	38.860281 °
				-121.783247 °	-121.783247 °
DWR ID	DWR_RD1500_01_f_2019_91				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Runoff on the landside slope.					

No Photos

LM Start	14.19	Rating **	M	Issue No.	30
LM End	14.19	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.860624 °	38.860624 °
				-121.783324 °	-121.783324 °
DWR ID	DWR_RD1500_01_s_2012_30				
Comment Code					
BU : Building					
Inspector Comment					
Concrete stemwall into levee embankment.					

Photo 1 of 1 : FA_2019_RD1500_189_30_20190829_00012.jpg



View of the building on the landward side of the levee looking upstream. Fall 2015.

LM Start	14.21	Rating **	M	Issue No.	138
LM End	14.21	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.860951 °	38.860951 °
				-121.783422 °	-121.783422 °
DWR ID	DWR_RD1500_01_f_2016_138				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD1500_189_138_20190829_00065.jpg



View of a building encroaching the levee on landside toe. Fall 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	14.23	Rating **	A/W	Issue No.	86
LM End	14.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.861112 °	38.861112 °
				-121.783490 °	-121.783490 °
DWR ID	DWR_RD1500_01_f_2019_86				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent hole on the landside slope.					

No Photos

LM Start	14.24	Rating **	M	Issue No.	31
LM End	14.25	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.861335 °	38.861385 °
				-121.783605 °	-121.783621 °
DWR ID	DWR_RD1500_01_s_2012_31				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD1500_189_31_20190829_00013.jpg



View of the landscaping on the landward side of the levee looking upstream. Spring 2016.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	14.71	Rating **	M	Issue No.	969
LM End	15.76	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.865395 °	38.871827 °
				-121.789402 °	-121.804158 °
DWR ID	DWR_RD1500_01_s_2012_969				
Comment Code					
DT : Ditch					
Inspector Comment					
There is a ditch at the levee toe.					

Photo 1 of 1 : FA_2019_RD1500_189_969_20190829_00074.jpg



View of the ditch on the landward side of the levee looking upstream.
Fall 2015.

LM Start	15.11	Rating **	M	Issue No.	2573	
LM End	15.11	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.866841 °	38.866841 °	
				-121.794047 °	-121.794047 °	
DWR ID	20010					
Comment Code						
Inspector Comment						
DS_ID:20010 FS_ID:28486 EP_NO: 10037 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Water treatment plant on landside.Working during field visit.Not found- Flap Gate in 6.5 foot by 7.0 foot O.D. concrete distribution box at landward toe. FIELD_STRUCT_DESC: 22-inch concrete encased steel irrigation discharge pipe through the levee, 17.5 feet below the crown. One concrete cutoff wall. 1.5-inch conduit through the levee, 6 feet below the crown. Slant pump on the riverbank. Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Flap gate in a 6.5-foot by 7-foot, outside dimensions, concrete distribution box at the landside (LS) toe. Meter pole and sparkling water meter in a 22-inch steel riser at the LS toe. (22-inch concrete encased steel irrigation discharge pipe through the levee, slant pump, and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10037, 1974 - John Clauss). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 128, March 1960, (HLM 15.26), 18-inch pipe referenced]. FS Date: 1/10/2014						

Photo 1 of 3 : UCIP_FA_2019_28486_52461.jpg



WS view: CMP riser with gate valve and slant pump on steel platform.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	15.11	Rating **	M	Issue No.	2573 (cont)	
LM End	15.11	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.866841 °	38.866841 °	
				-121.794047 °	-121.794047 °	
DWR ID	20010					
Comment Code						
Inspector Comment						
DS_ID:20010 FS_ID:28486 EP_NO: 10037 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Water treatment plant on landside.Working during field visit.Not found- Flap Gate in 6.5 foot by 7.0 foot O.D. concrete distribution box at landward toe. FIELD_STRUCT_DESC: 22-inch concrete encased steel irrigation discharge pipe through the levee, 17.5 feet below the crown. One concrete cutoff wall. 1.5-inch conduit through the levee, 6 feet below the crown. Slant pump on the riverbank. Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Flap gate in a 6.5-foot by 7-foot, outside dimensions, concrete distribution box at the landside (LS) toe. Meter pole and sparkling water meter in a 22-inch steel riser at the LS toe. (22-inch concrete encased steel irrigation discharge pipe through the levee, slant pump, and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10037, 1974 - John Clauss). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 128, March 1960, (HLM 15.26), 18-inch pipe referenced]. FS Date: 1/10/2014						

LM Start	15.11	Rating **	M	Issue No.	2573 (cont)
LM End	15.11	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_28486_52460.jpg



WS view: oil leaking slant pump on steel platform.

Photo 3 of 3 : UCIP_FA_2019_28486_52459.jpg



LS view: concrete distribution box on levee toe. Water filtration plant off the levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	16.30	Rating **	M	Issue No.	33
LM End	16.30	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.875785 °	38.875785 °
				-121.812330 °	-121.812330 °
DWR ID	DWR_RD1500_01_f_2017_33				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

LM Start	16.97	Rating **	M	Issue No.	2574	
LM End	16.97	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.885098 °	38.885098 °	
				-121.812884 °	-121.812884 °	
DWR ID	20081					
Comment Code						
Inspector Comment						
DS_ID:20081 FS_ID:28489 EP_NO: 8510 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe not visible on river bank.Cleaning and clearing require around slide gates. May be abandoned. FIELD_STRUCT_DESC: 24-inch corrugated metal irrigation discharge pipe through the levee, 15 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Slide gate on a concrete U-shaped headwall and irrigation ditch at the landside (LS) toe. (24-inch corrugated metal irrigation discharge pipe through the levee retained under Permit No. 8510, 1972 - John Clauss Jr. et al.). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 128, March 1960, (HLM 17.14)]. FS Date: 1/14/2014						

Photo 1 of 3 : UCIP_FA_2019_28489_52479.jpg



WS view: CMP riser with slide gate on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	16.97	Rating **	M	Issue No.	2574 (cont)	
LM End	16.97	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.885098 °	38.885098 °	
				-121.812884 °	-121.812884 °	
DWR ID	20081					
Comment Code						
Inspector Comment						
DS_ID:20081 FS_ID:28489 EP_NO: 8510 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe not visible on river bank.Cleaning and clearing require around slide gates. May be abandoned. FIELD_STRUCT_DESC: 24-inch corrugated metal metal irrigation discharge pipe through the levee, 15 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Slide gate on a concrete U-shaped headwall and irrigation ditch at the landside (LS) toe. (24-inch corrugated metal irrigation discharge pipe through the levee retained under Permit No. 8510, 1972 - John Clauss Jr. et al.). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 128, March 1960, (HLM 17.14)]. FS Date: 1/14/2014						

LM Start	16.97	Rating **	M	Issue No.	2574 (cont)
LM End	16.97	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_28489_52478.jpg



WS view: cleaning and clearing require around slide gate in CMP riser.

Photo 3 of 3 : UCIP_FA_2019_28489_52477.jpg



LS view: U type concrete headwall with slide gate on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	17.27	Rating **	M	Issue No.	117
LM End	17.27	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.887377 °	38.887377 °
				-121.808236 °	-121.808236 °
DWR ID	DWR_RD1500_01_f_2016_117				
Comment Code					
ST : Stairway					
Inspector Comment					
Stairway was made by digging into the levee slope.					

Photo 1 of 1 : FA_2019_RD1500_189_117_20190829_00053.jpg



View of stairs dug on landside levee slope. Fall 2016.

LM Start	17.27	Rating **	M	Issue No.	2575
LM End	17.27	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.887377°	38.887377°
				-121.808219°	-121.808219°
DWR ID	20066				
Comment Code					
Inspector Comment					
DS_ID:20066 FS_ID:28490 EP_NO: 1739 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Most of the pipe exposed on levee slope.Pipe leakage repaired recently.Siphon breaker requires protection. FIELD_STRUCT_DESC: 20-inch welded steel irrigation discharge pipe through the levee, 5.5 feet below the crown. Slant pump mounted on a steel structure on the waterside (WS). Siphon breaker on the landside (LS) slope. Pipe discharges into a 6-foot by 5.5-foot, outside dimensions, concrete distribution box and irrigation ditch at the LS toe. Fish screen added in 2011. (Installation of a slant pump and a discharge pipe through the levee authorized under Permit No. 1739, 1953 - John Clauss. Installation of a fish screen authorized under Permit No. 18678, [permit missing], [RM 102.50]). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 17.45)]. FS Date: 1/14/2014					

Photo 1 of 3 : UCIP_FA_2019_28490_52485.jpg



WS view: slant pump on steel platform on levee berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	17.27	Rating **	M	Issue No.	2575 (cont)	
LM End	17.27	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.887377°	38.887377°	
				-121.808219°	-121.808219°	
DWR ID	20066					
Comment Code						
Inspector Comment						
DS_ID:20066 FS_ID:28490 EP_NO: 1739 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Most of the pipe exposed on levee slope.Pipe leakage repaired recently.Siphon breaker requires protection. FIELD_STRUCT_DESC: 20-inch welded steel irrigation discharge pipe through the levee, 5.5 feet below the crown. Slant pump mounted on a steel structure on the waterside (WS). Siphon breaker on the landside (LS) slope. Pipe discharges into a 6-foot by 5.5-foot, outside dimensions, concrete distribution box and irrigation ditch at the LS toe. Fish screen added in 2011. (Installation of a slant pump and a discharge pipe through the levee authorized under Permit No. 1739, 1953 - John Clauss. Installation of a fish screen authorized under Permit No. 18678, [permit missing], [RM 102.50]). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 17.45)]. FS Date: 1/14/2014						

LM Start	17.27	Rating **	M	Issue No.	2575 (cont)
LM End	17.27	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_28490_52484.jpg



LS view: siphon breaker (bottom) without protection, exposed pipe on levee slope, and distribution box on levee toe.

Photo 3 of 3 : UCIP_FA_2019_28490_52483.jpg



LS view: exposed pipe on levee slope, and concrete distribution box on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	17.34	Rating **	C	Issue No.	121
LM End	17.34	Issue Type +	En	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.888137°	38.888137°	
			-121.807273°	-121.807273°	
DWR ID	DWR_RD1500_01_f_2015_121				
Comment Code					
PI : Pipe					
Inspector Comment					
Pipe is causing the erosion on the berm of the levee.					

No Photos

LM Start	17.70	Rating **	M	Issue No.	84
LM End	17.70	Issue Type +	En	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.892865°	38.892865°	
			-121.804710°	-121.804710°	
DWR ID	DWR_RD1500_01_f_2019_84				
Comment Code					
PR : Prunings					
Inspector Comment					
Pruning pile on the landside slope.					

No Photos

LM Start	18.20	Rating **	A/W	Issue No.	79
LM End	18.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		38.899570°	38.899570°	
			-121.802229°	-121.802229°	
DWR ID	DWR_RD1500_01_f_2019_79				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes near the landside toe. Recommend monitoring.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Fall 2019

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	18.38	Rating **	A/W	Issue No.	80
LM End	19.06	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.901337 °	38.902721 °
				-121.801175 °	-121.790677 °
DWR ID	DWR_RD1500_01_f _ 2018_80				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 104.0 L					
Status: Eroding					
2017 Field Notes: Bank slope is relatively stable.					
Site History: 1997 - Pocket failures of cobble revetment toe; scallops of rock loss along the bank; irregular bankline developing. 2001 - Small scallops in the toe of the berm. 2005 - Still multiple erosion pockets in the toe. 2006 - Two new small slumps. 2011 - Old cobble continue to fail causing minor slumping. 2012 - Portions of site appears to be stabilizing. 2016- Cobble revetment continues to fail.					

A wide river flows from the foreground towards the background under a clear, bright blue sky. The far bank is a steep, grassy embankment with several tall, thin, dark poles or masts standing vertically. The near bank is a rocky shoreline with low-lying green vegetation. The water is calm, reflecting the sky and the distant bank. In the bottom right corner, there is a small, faint, light blue rectangular stamp with some illegible text.

USACE 2013 Photo #1

LM Start	18.40	Rating **	M	Issue No.	2576
LM End	18.40	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.900885 °	38.900885 °
				-121.800999 °	-121.800999 °
DWR ID	20068				
Comment Code					
Inspector Comment					
DS_ID:20068 FS_ID:28505 EP_NO: 2425 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Concrete pad on both sides of the levee shoulders.Oil leaks from pump set. FIELD_STRUCT_DESC: 14-inch steel irrigation discharge pipe through the levee, 3 feet below the crown. Two concrete cutoff walls. Slant pump in a corrugated metal pump house on a steel structure on the bank. Meter pole on the slope. Water meter installed on the pipe on the waterside (WS) slope. Siphon breaker on the landside (LS) shoulder. Pipe discharges into a 36-inch, inside diameter, concrete standpipe at the LS toe. (Installation of a pumping plant and discharge pipe authorized under Permit No. 2425, 1956 - Glenn J. Hiatt, [RM 103.66]). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 18.60)]. FS Date: 1/14/2014					

A small, weathered wooden building with a corrugated metal roof and a wooden ramp, situated in a dry, open landscape under a clear blue sky. The building appears to be a guardhouse or a small storage shed. It has a wooden frame and a corrugated metal roof. A wooden ramp with a metal railing leads up to the entrance. The building is surrounded by dry grass and some small trees in the background. The sky is clear and blue.

WS view: slant pump in CM shed on levee berm. Oil leaks from the pump.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	18.40	Rating **	M	Issue No.	2576 (cont)	
LM End	18.40	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.900885°	38.900885°	
				-121.800999°	-121.800999°	
DWR ID	20068					
Comment Code						
Inspector Comment						
DS_ID:20068 FS_ID:28505 EP_NO: 2425 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Concrete pad on both sides of the levee shoulders.Oil leaks from pump set. FIELD_STRUCT_DESC: 14-inch steel irrigation discharge pipe through the levee, 3 feet below the crown. Two concrete cutoff walls. Slant pump in a corrugated metal pump house on a steel structure on the bank. Meter pole on the slope. Water meter installed on the pipe on the waterside (WS) slope. Siphon breaker on the landside (LS) shoulder. Pipe discharges into a 36-inch, inside diameter, concrete standpipe at the LS toe. (Installation of a pumping plant and discharge pipe authorized under Permit No. 2425, 1956 - Glenn J. Hiatt, [RM 103.66]). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 18.60)]. FS Date: 1/14/2014						

LM Start	18.40	Rating **	M	Issue No.	2576 (cont)
LM End	18.40	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_28505_52516.jpg



LS view: siphon breaker (bottom) on exposed steel pipe on levee slope and steel stand pipe (top) on levee toe.

Photo 3 of 3 : UCIP_FA_2019_28505_52515.jpg



LS view: siphon breaker (left) on exposed steel pipe on levee slope. Concrete pad (right) on levee shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	18.98	Rating **	M	Issue No.	36
LM End	18.98	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.901570 °	38.901570 °
				-121.791235 °	-121.791235 °
DWR ID	DWR_RD1500_01_s_2012_36				
Comment Code					
BU : Building					
Inspector Comment					
Building and concrete retaining wall are located at the toe of landside levee. The retaining wall is permitted (Permit #10065) but the building is not.					

Photo 1 of 1 : FA_2019_RD1500_189_36_20190829_00014.jpg



View of the building on the landward side of the levee looking upstream. Fall 2015.

LM Start	18.98	Rating **	M	Issue No.	37
LM End	19.04	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.901659 °	38.902383 °
				-121.791264 °	-121.790574 °
DWR ID	DWR_RD1500_01_s_2012_37				
Comment Code					
V6 : Landscaping					
Inspector Comment					
The groundcover is on the levee slope above the concrete retaining wall. The groundcover is irrigated.					

Photo 1 of 2 : FA_2019_RD1500_189_37_20190829_00015.jpg



View of the groundcover on the levee slope above the concrete retaining wall.

LM Start	18.98	Rating **	M	Issue No.	37 (cont)
LM End	19.04	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA_2019_RD1500_189_37_20190829_00016.jpg



View of the groundcover on the landward side of the levee looking upstream. Fall 2015.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	19.16	Rating **	A/W	Issue No.	81
LM End	19.47	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.904041°	38.906697°
				-121.790298°	-121.792796°
DWR ID	DWR_RD1500_01_f_2018_81				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 104.5 L					
Status: Eroding					
2017 Field Notes: Site appears stable.					
Site History: 1997 - Cobbles eroded off the clay materials; not much evidence of erosion on the toe; cobble loss on the toe. 2011 - Some minor new erosion.					

Photo 1 of 1 : FA_2019_RD1500_189_81_20190829_00029.jpg



USACE 2013 Photo #1

LM Start	19.23	Rating **	M	Issue No.	2577
LM End	19.23	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.905029°	38.905029°
				-121.790076°	-121.790076°
DWR ID	20087				
Comment Code					
Inspector Comment					
DS_ID:20087 FS_ID:28506 EP_NO: 550 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Surface erosion on landside slope.Oil leaks from the pump. FIELD_STRUCT_DESC: 14-inch coated steel irrigation discharge pipe through the levee, 4.8 feet below the crown. Two concrete cutoff walls. Slant pump and gate valve in a corrugated metal pump house on a steel structure on the berm. Water meter installed on the pipe on the waterside (WS) slope. Screw gate at the landside (LS) end. Concrete distribution box on the LS. (Installation of a pump and a 14-inch steel discharge pipe through the levee authorized under Permit No. 550, 1931 - P. J. Hiatt. Replacement of a failing 14-inch pipe with the same size pipe through the levee authorized under Permit No. 17648, 2003 - Van Ruiten Brothers). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 128, March 1960, (HLM 19.44)]. FS Date: 1/14/2014					

Photo 1 of 3 : UCIP_FA_2019_28506_52523.jpg



WS view: slant pump in CM shed on levee berm. Oil leaks from the pump.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	19.23	Rating **	M	Issue No.	2577 (cont)	
LM End	19.23	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.905029°	38.905029°	
				-121.790076°	-121.790076°	
DWR ID	20087					
Comment Code						
Inspector Comment						
DS_ID:20087 FS_ID:28506 EP_NO: 550 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Surface erosion on landside slope.Oil leaks from the pump. FIELD_STRUCT_DESC: 14-inch coated steel irrigation discharge pipe through the levee, 4.8 feet below the crown. Two concrete cutoff walls. Slant pump and gate valve in a corrugated metal pump house on a steel structure on the berm. Water meter installed on the pipe on the waterside (WS) slope. Screw gate at the landside (LS) end. Concrete distribution box on the LS. (Installation of a pump and a 14-inch steel discharge pipe through the levee authorized under Permit No. 550, 1931 - P. J. Hiatt. Replacement of a failing 14-inch pipe with the same size pipe through the levee authorized under Permit No. 17648, 2003 - Van Ruiten Brothers). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 128, March 1960, (HLM 19.44)]. FS Date: 1/14/2014						

Photo 2 of 3 : UCIP_FA_2019_28506_52522.jpg



LS view: surface erosion on landside levee slope.

LM Start	19.23	Rating **	M	Issue No.	2577 (cont)
LM End	19.23	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_FA_2019_28506_52521.jpg



LS view: concrete distribution box on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	19.47	Rating **	M	Issue No.	2578	
LM End	19.47	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.907033 °	38.907033 °	
				-121.792943 °	-121.792943 °	
DWR ID	20004					
Comment Code						
Inspector Comment						
DS_ID:20004 FS_ID:28524 EP_NO: 15681 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Obstructed siphon breakers on landside.Two 3-inch conduit through the levee.Service box on pump platform.Pumping plant was working during the field visit. FIELD_STRUCT_DESC: 1 of 2: 16-inch steel irrigation discharge pipe, asphalt coated inside and out and wrapped with asphalt saturated felt, through the levee, 1.5 feet below the crown. Cutoff wall at the centerline of the levee. Two slant pumps supported by a steel piling structure on the riverbank. Steel walkway to the pump platform. Siphon breakers in steel pipe risers on the landside (LS) shoulder. Pipe discharges into a concrete discharge box off the LS toe. (Installation of a discharge pipe through the levee and a slant pump on the riverbank authorized under Permit No. 15681, 1991 - Blackfraires Investment). FS Date: 1/14/2014						

LM Start	19.47	Rating **	M	Issue No.	2578 (cont)
LM End	19.47	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_28524_52551.jpg



WS view: pipe, walkway, slant pump, and steel platform on levee berm.

Photo 2 of 3 : UCIP_FA_2019_28524_52550.jpg



LS view: siphon breakers in steel pipe risers (bottom) on levee slope and concrete distribution (top) box on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	19.47	Rating **	M	Issue No.	2578 (cont)	
LM End	19.47	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.907033 °	38.907033 °	
				-121.792943 °	-121.792943 °	
DWR ID	20004					
Comment Code						
Inspector Comment						
DS_ID:20004 FS_ID:28524 EP_NO: 15681 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Obstructed siphon breakers on landside.Two 3-inch conduit through the levee.Service box on pump platform.Pumping plant was working during the field visit. FIELD_STRUCT_DESC: 1 of 2: 16-inch steel irrigation discharge pipe, asphalt coated inside and out and wrapped with asphalt saturated felt, through the levee, 1.5 feet below the crown. Cutoff wall at the centerline of the levee. Two slant pumps supported by a steel piling structure on the riverbank. Steel walkway to the pump platform. Siphon breakers in steel pipe risers on the landside (LS) shoulder. Pipe discharges into a concrete discharge box off the LS toe. (Installation of a discharge pipe through the levee and a slant pump on the riverbank authorized under Permit No. 15681, 1991 - Blackfraires Investment). FS Date: 1/14/2014						

Photo 3 of 3 : UCIP_FA_2019_28524_52549.jpg



LS view: concrete distribution box on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	19.47	Rating **	M	Issue No.	2579	
LM End	19.47	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.907028 °	38.907028 °	
				-121.792959 °	-121.792959 °	
DWR ID	20022					
Comment Code						
Inspector Comment						
DS_ID:20022 FS_ID:28927 EP_NO: 15681 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Obstructed siphon breakers on landside.Two 3-inch conduit through the levee.Service box on pump platform.Pumping plant was working during the field visit. FIELD_STRUCT_DESC: 2 of 2: 20-inch steel irrigation discharge pipe, asphalt coated inside and out and wrapped with asphalt saturated felt, through the levee, 1.5 feet below the crown. Cutoff wall at the centerline of the levee. Two slant pumps supported by a steel piling structure on the riverbank. Steel walkway to the pump platform. Siphon breakers in steel pipe risers on the landside (LS) shoulder. Pipe discharges into a concrete discharge box off the LS toe. (Installation of a discharge pipe through the levee and a slant pump on the riverbank authorized under Permit No. 15681, 1991 - Blackfraires Investment). FS Date: 1/14/2014						

LM Start	19.47	Rating **	M	Issue No.	2579 (cont)
LM End	19.47	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_28927_53216.jpg



WS view: pipe, walkway, slant pump, and steel platform on levee berm.

Photo 2 of 3 : UCIP_FA_2019_28927_53215.jpg



LS view: siphon breakers in steel pipe risers (bottom) on levee slope and concrete distribution (top) box on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	19.47	Rating **	M	Issue No.	2579 (cont)	
LM End	19.47	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.907028 °	38.907028 °	
				-121.792959 °	-121.792959 °	
DWR ID	20022					
Comment Code						
Inspector Comment						
DS_ID:20022 FS_ID:28927 EP_NO: 15681 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Obstructed siphon breakers on landside.Two 3-inch conduit through the levee.Service box on pump platform.Pumping plant was working during the field visit. FIELD_STRUCT_DESC: 2 of 2: 20-inch steel irrigation discharge pipe, asphalt coated inside and out and wrapped with asphalt saturated felt, through the levee, 1.5 feet below the crown. Cutoff wall at the centerline of the levee. Two slant pumps supported by a steel piling structure on the riverbank. Steel walkway to the pump platform. Siphon breakers in steel pipe risers on the landside (LS) shoulder. Pipe discharges into a concrete discharge box off the LS toe. (Installation of a discharge pipe through the levee and a slant pump on the riverbank authorized under Permit No. 15681, 1991 - Blackfraires Investment). FS Date: 1/14/2014						

Photo 3 of 3 : UCIP_FA_2019_28927_53214.jpg



LS view: concrete distribution box on levee toe.

LM Start	19.56	Rating **	M	Issue No.	2549
LM End	19.56	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.906565 °	38.906565 °
				-121.794472 °	-121.794472 °
DWR ID	DWR_RD1500_01_s_2015_2549				
Comment Code					
EQ : Equipment					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD1500_189_2549_20190829_00077.jpg



View of the equipment on the waterward side of the levee looking upstream. Spring 2015.

* Location
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

** Rating
 A : Acceptable
 M : Minimally Acceptable
 U : Unacceptable
 N : Not Inspected/Rated
 C : Corrected
 A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	20.97	Rating **	M	Issue No.	123
LM End	21.15	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.910885 °	38.913199 °
				-121.804603 °	-121.803256 °
DWR ID	DWR_RD1500_01_s_2018_123				
Comment Code					
DT : Ditch					
Inspector Comment					
Ditch within landside easement.					

Photo 1 of 1 : FA_2019_RD1500_189_123_20190829_00061.jpg



View of ditch at the landside toe. Spring 2018.

LM Start	21.01	Rating **	C	Issue No.	105
LM End	21.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.911322 °	38.911322 °
				-121.804078 °	-121.804078 °
DWR ID	DWR_RD1500_01_f_2018_105				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes are on the landside slope.					

No Photos

LM Start	21.10	Rating **	C	Issue No.	103
LM End	21.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.912511 °	38.912511 °
				-121.803355 °	-121.803355 °
DWR ID	DWR_RD1500_01_s_2019_103				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes are at the landside toe.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	21.15	Rating **	C	Issue No.	151
LM End	21.15	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.913240 °	38.913240 °
				-121.803245 °	-121.803245 °
DWR ID	DWR_RD1500_01_s_2019_151				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes are on the landside slope and shoulder.					

No Photos

LM Start	21.26	Rating **	M	Issue No.	2580
LM End	21.26	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.914659 °	38.914659 °
				-121.803609 °	-121.803609 °
DWR ID	20070				
Comment Code					
Inspector Comment					
DS_ID:20070 FS_ID:28527 EP_NO: 11959A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Siphon breaker (obstructed) in CMP on landside slope.Power pole on landside toe. FIELD_STRUCT_DESC: 10-inch coated and wrapped steel irrigation discharge pipe through the levee, 3 feet below the crown. Corrugated metal cutoff wall. Slant pump on a steel platform at the riverbank. Obstructed siphon breaker in a corrugated metal pipe (CMP) riser on the landside (LS) slope. Pipe discharges into a 6-foot by 6-foot concrete distribution box on the LS. (Replacement of an existing 10-inch steel pipe with a new 10-inch steel pipe through the levee authorized under Permit No. 11959-A, 1977 - George Van Ruiten Jr.). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 21.50)]. FS Date: 1/14/2014					

Photo 1 of 3 : UCIP_FA_2019_28527_52568.jpg



WS view: slant pump on steel platform on levee berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	21.26	Rating **	M	Issue No.	2580 (cont)
LM End	21.26	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.914659 °	38.914659 °
				-121.803609 °	-121.803609 °
DWR ID	20070				

Comment Code

Inspector Comment

DS_ID:20070
FS_ID:28527
EP_NO: 11959A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Siphon breaker (obstructed) in CMP on landside slope. Power pole on landside toe.
FIELD_STRUCT_DESC: 10-inch coated and wrapped steel irrigation discharge pipe through the levee, 3 feet below the crown. Corrugated metal cutoff wall. Slant pump on a steel platform at the riverbank.
Obstructed siphon breaker in a corrugated metal pipe (CMP) riser on the landside (LS) slope. Pipe discharges into a 6-foot by 6-foot concrete distribution box on the LS. (Replacement of an existing 10-inch steel pipe with a new 10-inch steel pipe through the levee authorized under Permit No. 11959-A, 1977 - George Van Ruiten Jr.). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 21.50)].
FS Date: 1/14/2014

LM Start	21.26	Rating **	M	Issue No.	2580 (cont)
LM End	21.26	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_28527_52567.jpg



LS view: siphon breaker in CMP riser on levee slope (bottom) and concrete distribution box (top) on levee toe.

Photo 3 of 3 : UCIP_FA_2019_28527_52566.jpg



LS view: obstructed siphon breaker in CMP riser on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	21.30	Rating **	M	Issue No.	140
LM End	21.58	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.914846°	38.916180°
				-121.803692°	-121.808850°
DWR ID	DWR_RD1500_01_f_2016_140				
Comment Code					
DT : Ditch					
Inspector Comment					
There is an old ditch at the landside toe.					

No Photos

LM Start	21.58	Rating **	M	Issue No.	120
LM End	21.58	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.916207 °	38.916207 °
				-121.808893 °	-121.808893 °
DWR ID	DWR_RD1500_01_s_2018_120				
Comment Code					
PI : Pipe					
Inspector Comment					
There is erosion around landowner's PVC standpipe.					

Photo 1 of 1 : FA_2019_RD1500_189_120_20190829_00057.jpg



View of erosion around PVC standpipe. Spring 2018.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	21.58	Rating **	M	Issue No.	2581	
LM End	21.58	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.916180°	38.916180°	
				-121.808904°	-121.808904°	
DWR ID	20071					
Comment Code						
Inspector Comment						
DS_ID:20071 FS_ID:28528 EP_NO: 10063 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Water leaks near pump. Obstructed siphon breaker in CMP on landside.Plant was working during field visit. FIELD_STRUCT_DESC: 16-inch steel irrigation discharge pipe through the levee, 6.3 feet below the crown. Corrugated metal cutoff wall. 1.5-inch conduit through the levee, 6.5 feet below the crown. Slant pump and gate valve on riverbank. Siphon breaker in a 24-inch corrugated metal pipe (CMP) riser on the landside (LS) slope. 5-foot by 5-foot concrete distribution box on the LS. CMP standpipe on the LS toe. Power pole and one anchor at the LS toe. (Automatic Board Order (ABO) issued as Permit No. 10063, 1974 - Thomas L. Nelson). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 21.83)]. FS Date: 1/14/2014						

LM Start	21.58	Rating **	M	Issue No.	2581 (cont)
LM End	21.58	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_28528_52576.jpg



WS view: slant pump on steel platform on levee berm. Exposed steel pipe with gate valve also on levee berm.

Photo 2 of 3 : UCIP_FA_2019_28528_52575.jpg



WS view: leaky inlet pipe near pump platform.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	21.58	Rating **	M	Issue No.	2581 (cont)	
LM End	21.58	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.916180 °	38.916180 °	
				-121.808904 °	-121.808904 °	
DWR ID	20071					
Comment Code						
Inspector Comment						
DS_ID:20071 FS_ID:28528 EP_NO: 10063 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Water leaks near pump. Obstructed siphon breaker in CMP on landside.Plant was working during field visit. FIELD_STRUCT_DESC: 16-inch steel irrigation discharge pipe through the levee, 6.3 feet below the crown. Corrugated metal cutoff wall. 1.5-inch conduit through the levee, 6.5 feet below the crown. Slant pump and gate valve on riverbank. Siphon breaker in a 24-inch corrugated metal pipe (CMP) riser on the landside (LS) slope. 5-foot by 5-foot concrete distribution box on the LS. CMP standpipe on the LS toe. Power pole and one anchor at the LS toe. (Automatic Board Order (ABO) issued as Permit No. 10063, 1974 - Thomas L. Nelson). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 21.83)]. FS Date: 1/14/2014						

Photo 3 of 3 : UCIP_FA_2019_28528_52574.jpg



LS view: siphon breaker in CMP riser on levee slope (bottom) and CMP stand pipe (top) on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	22.73	Rating **	M	Issue No.	2582
LM End	22.73	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.919717 °	38.919717 °
				-121.829113 °	-121.829113 °
DWR ID	19995				
Comment Code					
Inspector Comment					
DS_ID:19995 FS_ID:28583 EP_NO: 10851 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Exposed conduit on both slopes of the levee. Plant was working during field visit. Water was leaking from pipe joint near pump.Obstructed siphon breaker in CMP. FIELD_STRUCT_DESC: [Pumping Plant No. 2] 14-inch steel irrigation discharge pipe through the levee, 6.2 feet below the crown. Corrugated metal cutoff wall. 2-inch conduit through the levee, 5 feet below the crown. Pump and gate valve on a steel platform at the riverbank. Switch panel on the berm. Siphon breaker in a 24-inch corrugated metal pipe (CMP) riser on the landside (LS) shoulder. Pipe discharges into a 36-inch CMP standpipe at the LS toe. Meter pole at the LS toe. (Installation of three centrifugal pumps authorized under Permit No. 2895, 1958 - George Van Ruiten). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 128, March 1960, (HLM 23.00), 14-inch pipe referenced]. FS Date: 1/14/2014					

LM Start	22.73	Rating **	M	Issue No.	2582 (cont)
LM End	22.73	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_28583_52627.jpg



WS view: slant pump on steel platform on levee berm.

Photo 2 of 3 : UCIP_FA_2019_28583_52626.jpg



WS view: gate valve beneath slant pipe on levee berm. Water leaking from this pipe (marked).

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	22.73	Rating **	M	Issue No.	2582 (cont)	
LM End	22.73	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.919717°	38.919717°	
				-121.829113°	-121.829113°	
DWR ID	19995					
Comment Code						
Inspector Comment						
DS_ID:19995 FS_ID:28583 EP_NO: 10851 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Exposed conduit on both slopes of the levee. Plant was working during field visit. Water was leaking from pipe joint near pump.Obstructed siphon breaker in CMP. FIELD_STRUCT_DESC: [Pumping Plant No. 2] 14-inch steel irrigation discharge pipe through the levee, 6.2 feet below the crown. Corrugated metal cutoff wall. 2-inch conduit through the levee, 5 feet below the crown. Pump and gate valve on a steel platform at the riverbank. Switch panel on the berm. Siphon breaker in a 24-inch corrugated metal pipe (CMP) riser on the landside (LS) shoulder. Pipe discharges into a 36-inch CMP standpipe at the LS toe. Meter pole at the LS toe. (Installation of three centrifugal pumps authorized under Permit No. 2895, 1958 - George Van Ruiten). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 128, March 1960, (HLM 23.00), 14-inch pipe referenced]. FS Date: 1/14/2014						

Photo 3 of 3 : UCIP_FA_2019_28583_52625.jpg



LS view: siphon breaker in CMP riser on levee slope (bottom) and CMP stand pipe (top) on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	23.65	Rating **	U	Issue No.	2583	
LM End	23.65	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.930242 °	38.930242 °	
				-121.834956 °	-121.834956 °	
DWR ID	20072					
Comment Code						
Inspector Comment						
DS_ID:20072 FS_ID:53023 EP_NO: 2895 Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/18/2018 WS levee slope was disturbed to perform pipe maintenance. Unable to locate a permit for this work. Crossing remains "Urgent" due to soil disturbance on WS levee slope. (O.Yakimov - DWR UCIP)Most of the pipe exposed on levee slopes.Leaky pump. Obstructed siphon breaker.Not found- Concrete headwall at landward toe. FIELD_STRUCT_DESC: [Pumping Plant No. 1] 14-inch steel irrigation discharge pipe through the levee, 6.5 feet below the crown. Corrugated metal cutoff wall. 1.5-inch conduit through the levee, 4 feet below the crown. Slant pump and control panel on steel structure on the berm. Siphon breaker in a 24-inch corrugated metal pipe (CMP) riser on the landside (LS) shoulder. 36-inch concrete standpipe at the LS toe. Concrete headwall at the LS toe. Meter pole at the LS toe. (Installation of three centrifugal pumps authorized under Permit No. 2895, 1958 - George Van Ruiten). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 23.92), 24-inch pipe referenced]. FS Date: 10/18/2018 8:01:23 AM						

LM Start	23.65	Rating **	U	Issue No.	2583 (cont)
LM End	23.65	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_53023_78166.jpg



WS levee slope was excavated to do pipe maintenance, photo courtesy of Zach Jojola.

Photo 2 of 3 : UCIP_FA_2019_53023_78167.jpg



Levee crown view: WS levee slope was excavated to do pipe maintenance, photo courtesy of Zach Jojola.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	23.65	Rating **	U	Issue No.	2583 (cont)	
LM End	23.65	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.930242 °	38.930242 °	
				-121.834956 °	-121.834956 °	
DWR ID	20072					
Comment Code						
Inspector Comment						
DS_ID:20072 FS_ID:53023 EP_NO: 2895 Repair Type: Urgent Crossing Status: Found UCIP Comments: 10/18/2018 WS levee slope was disturbed to perform pipe maintenance. Unable to locate a permit for this work. Crossing remains "Urgent" due to soil disturbance on WS levee slope. (O.Yakimov - DWR UCIP)Most of the pipe exposed on levee slopes.Leaky pump. Obstructed siphon breaker.Not found- Concrete headwall at landward toe. FIELD_STRUCT_DESC: [Pumping Plant No. 1] 14-inch steel irrigation discharge pipe through the levee, 6.5 feet below the crown. Corrugated metal cutoff wall. 1.5-inch conduit through the levee, 4 feet below the crown. Slant pump and control panel on steel structure on the berm. Siphon breaker in a 24-inch corrugated metal pipe (CMP) riser on the landside (LS) shoulder. 36-inch concrete standpipe at the LS toe. Concrete headwall at the LS toe. Meter pole at the LS toe. (Installation of three centrifugal pumps authorized under Permit No. 2895, 1958 - George Van Ruiten). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 23.92), 24-inch pipe referenced]. FS Date: 10/18/2018 8:01:23 AM						

Photo 3 of 3 : UCIP_FA_2019_53023_77546.jpg



WS view: Currently installing a new meter. Still needs backfill. Levee inspector: Zachary Jojola.

LM Start	23.65	Rating **	M	Issue No.	112
LM End	23.65	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.930239 °	38.930239 °
				-121.834972 °	-121.834972 °
DWR ID	DWR_RD1500_01_s_2018_112				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Runoff on the waterside slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	23.69	Rating **	M	Issue No.	75
LM End	23.69	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.930802 °	38.930802 °
				-121.834822 °	-121.834822 °
DWR ID	DWR_RD1500_01_f _ 2019_75				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Fill tire ruts on the crown.					

No Photos

LM Start	23.71	Rating **	C	Issue No.	176
LM End	23.71	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.931045 °	38.931045 °
				-121.834795 °	-121.834795 °
DWR ID	DWR_RD1500_01_s_2016_176				
Comment Code					
EQ : Equipment					
Inspector Comment					

No Photos

LM Start	23.77	Rating **	M	Issue No.	42
LM End	23.77	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.931838 °	38.931838 °
				-121.834437 °	-121.834437 °
DWR ID	DWR_RD1500_01_s_2012_42				
Comment Code					
EQ : Equipment					
Inspector Comment					
Some equipment is located at the landside toe.					

Photo 1 of 1 : FA_2019_RD1500_189_42_20190829_00018.jpg



View of the barn and equipment on the landward side of the levee looking downstream. Fall 2015.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	24.17	Rating **	M	Issue No.	979
LM End	24.31	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.936419 °	38.938426 °
				-121.830220 °	-121.829365 °
DWR ID	DWR_RD1500_01_s_2012_979				
Comment Code					
DT : Ditch					
Inspector Comment					
Concrete lined ditch is located at the levee toe on the landward side of the levee.					

Photo 1 of 1 : FA_2019_RD1500_189_979_20190829_00075.jpg



View of the ditch on the landward side of the levee looking upstream.
Spring 2016.

LM Start	24.31	Rating **	M	Issue No.	2584
LM End	24.31	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.938431 °	38.938431 °
				-121.829350 °	-121.829350 °
DWR ID	24757				
Comment Code					
Inspector Comment					
DS_ID:24757 FS_ID:28603 EP_NO: 10057 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Plant was working during field visit. Leaky pipe near pump. FIELD_STRUCT_DESC: 24-inch steel irrigation discharge pipe through the levee, 6.5 feet below the crown. Corrugated metal cutoff wall. 1.5-inch conduit through the levee, 4 feet below the crown. Wooden walkway to a slant pump in a corrugated metal pump house on the berm. Gate valve on the berm. Hersey-Sparling meter on pipe at the waterside (WS) toe. Siphon breaker in a 24-inch corrugated metal pipe (CMP) riser on the landside (LS) shoulder. Pipe discharges into a 4-foot by 7-foot, inside dimensions, concrete distribution box at the LS toe. Meter pole at the LS toe. Field visit on 01/14/2014. (24-inch steel irrigation discharge pipe through the levee, slant pump, and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10057, 1974 - David S. Lewis, care of Broomieside Farms). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 128, March 1960, (HLM 24.60)]. FS Date: 1/14/2014					

Photo 1 of 3 : UCIP_FA_2019_28603_52667.jpg



WS view: slant pump on steel platform at levee berm. Walkway, exposed pipe, and gate valve on the berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Fall 2019

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	24.31	Rating **	M	Issue No.	2584 (cont)
LM End	24.31	Issue Type +	En	Location *	

LS view: siphon breaker in CMP riser on levee slope (bottom) and concrete distribution box (top) on levee toe.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	24.50	Rating **	M	Issue No.	76
LM End	24.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		38.940769 °	38.940769 °	
			-121.830856 °	-121.830856 °	
DWR ID	DWR_RD1500_01_f_2019_76				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	24.57	Rating **	M	Issue No.	102
LM End	24.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		38.941361 °	38.941361 °	
			-121.831899 °	-121.831899 °	
DWR ID	DWR_RD1500_01_f_2018_102				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
There are rodent holes at the landside toe.					

No Photos

LM Start	25.04	Rating **	A/W	Issue No.	77
LM End	25.04	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Animal Control		38.946748 °	38.946748 °	
			-121.835708 °	-121.835708 °	
DWR ID	DWR_RD1500_01_f_2019_77				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent hole on the landside slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	25.07	Rating **	M	Issue No.	78
LM End	25.07	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.947188 °	38.947188 °
				-121.835656 °	-121.835656 °
DWR ID	DWR_RD1500_01_f_2019_78				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

LM Start	25.49	Rating **	M	Issue No.	2585	
LM End	25.49	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.952803 °	38.952803 °	
				-121.837618 °	-121.837618 °	
DWR ID	20074					
Comment Code						
Inspector Comment						
DS_ID:20074 FS_ID:41728 EP_NO: 8765 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Burried Concrete headwall on landside toe. Should verify pipe has been properly abandoned.Utility tag plate on waterside shoulder.No pipe found. FIELD_STRUCT_DESC: *ABANDONED* 48-inch by 48-inch reinforced concrete box irrigation discharge culvert through the levee, 10 feet below the crown. (48-inch by 48-inch concrete culvert retained under Permit No. 9175, 1973 - David S. Lewis, DBA Broomieside Farms. To sleeve a 20-inch steel irrigation discharge pipe through the existing concrete culvert from a new slant-type pumping facility authorized under Permit No. 8765, 1973 - David S. Lewis, DBA Broomieside Farms. The 20-inch discharge pipe will be enclosed in a 30-inch, 0.375-inch wall steel pipe.). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 25.80)]. FS Date: 1/15/2014						

Photo 1 of 2 : UCIP_FA_2019_41728_52673.jpg



WS view: utility tag plate on waterside shoulder. No pipe found.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	25.49	Rating **	M	Issue No.	2585 (cont)	
LM End	25.49	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.952803 °	38.952803 °	
				-121.837618 °	-121.837618 °	
DWR ID	20074					
Comment Code						
Inspector Comment						
DS_ID:20074 FS_ID:41728 EP_NO: 8765 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Burried Concrete headwall on landside toe. Should verify pipe has been properly abandoned.Utility tag plate on waterside shoulder.No pipe found. FIELD_STRUCT_DESC: *ABANDONED* 48-inch by 48-inch reinforced concrete box irrigation discharge culvert through the levee, 10 feet below the crown. (48-inch by 48-inch concrete culvert retained under Permit No. 9175, 1973 - David S. Lewis, DBA Broomieside Farms. To sleeve a 20-inch steel irrigation discharge pipe through the existing concrete culvert from a new slant-type pumping facility authorized under Permit No. 8765, 1973 - David S. Lewis, DBA Broomieside Farms. The 20-inch discharge pipe will be enclosed in a 30-inch, 0.375-inch wall steel pipe.). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 25.80)]. FS Date: 1/15/2014						

Photo 2 of 2 : UCIP_FA_2019_41728_52672.jpg



LS view: concrete headwall on landside toe. No pipe found.

LM Start	25.50	Rating **	C	Issue No.	95
LM End	25.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.952967 °	38.952967 °
				-121.837730 °	-121.837730 °
DWR ID	DWR_RD1500_01_f_2018_95				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
There are rodent holes on the landside slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	26.52	Rating **	M	Issue No.	2586	
LM End	26.52	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.964915 °	38.964915 °	
				-121.833675 °	-121.833675 °	
DWR ID	20014					
Comment Code						
Inspector Comment						
DS_ID:20014 FS_ID:28629 EP_NO: 10057 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: May need proper abandonment. FIELD_STRUCT_DESC: *ABANDONED* 1 of 2: 24-inch steel irrigation discharge pipe through the levee, 7.1 feet below the crown. Two corrugated metal cutoff walls. Siphon breakers in 24-inch and 30-inch corrugated metal pipe (CMP) risers on the landside (LS) shoulder. 2-inch conduit through the levee. Installed by USACE in 1958. Wooden walkway to two slant pumps on a steel pile structure on berm. Meter pole and switch panel at the LS toe. (Steel discharge pipes, slant pumps, and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10057, 1974 - David S. Lewis, care of Broomieside Farms, [RM 112.06]. Moved to HLM 26.50 under Permit No. 16165, 1994 - Pelger Mutual Water Company/Murray, Burns, and Kienlen). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 128, March 1960, (HLM 26.84)]. FS Date: 1/15/2014						

LM Start	26.52	Rating **	M	Issue No.	2586 (cont)
LM End	26.52	Issue Type +	En	Location *	

Photo 1 of 2 : UCIP_FA_2019_28629_52709.jpg



WS view: abandoned 24" and 30" steel pipe on river bank.

Photo 2 of 2 : UCIP_FA_2019_28629_52708.jpg



LS view: abandoned CMP risers on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	26.52	Rating **	M	Issue No.	2587
LM End	26.52	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.964931 °	38.964931 °
				-121.833682 °	-121.833682 °
DWR ID	20013				
Comment Code					
Inspector Comment					
DS_ID:20013 FS_ID:28628 EP_NO: 10057 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: May need proper abandonment. FIELD_STRUCT_DESC: *ABANDONED* 2 of 2: 30-inch steel irrigation discharge pipe through the levee, 7.1 feet below the crown. Two corrugated metal cutoff walls. Siphon breakers in 24-inch and 30-inch corrugated metal pipe (CMP) risers on the landside (LS) shoulder. 2-inch conduit through the levee. Installed by USACE in 1958. Wooden walkway to two slant pumps on a steel pile structure on berm. Meter pole and switch panel at the LS toe. (Steel discharge pipes, slant pumps, and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10057, 1974 - David S. Lewis, care of Broomieside Farms, [RM 112.06]. Moved to HLM 26.50 under Permit No. 16165, 1994 - Pelger Mutual Water Company/Murray, Burns, and Kienlen). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 128, March 1960, (HLM 26.84)]. FS Date: 1/15/2014					

Photo 1 of 2 : UCIP_FA_2019_28628_52705.jpg



WS view: abandoned 24" and 30" steel pipe on river bank.

LM Start	26.52	Rating **	M	Issue No.	2587 (cont)
LM End	26.52	Issue Type +	En	Location *	

Photo 2 of 2 : UCIP_FA_2019_28628_52704.jpg



LS view: abandoned CMP risers on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	26.74	Rating **	M	Issue No.	2588
LM End	26.74	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.968093 °	38.968093 °
				-121.833708 °	-121.833708 °
DWR ID	20015				
Comment Code					
Inspector Comment					
DS_ID:20015 FS_ID:28631 EP_NO: 10052 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Obstructed siphon breaker. Leaky pump. FIELD_STRUCT_DESC: 18-inch steel irrigation discharge pipe through the levee, 7.1 feet below the crown. Corrugated metal cutoff wall. 2-inch conduit through the levee, 5.5 feet below the crown. Wooden walkway to slant pump and gate valve on wooden pump platform mounted on a steel pile structure on the berm. Siphon breaker in a 24-inch corrugated metal pipe (CMP) riser on the landside (LS) slope. Meter pole at the LS toe. (18-inch steel irrigation discharge pipe through the levee, slant pump, and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10052, 1974 - Clifton Lamb, [RM 112.29]). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 128, March 1960, (HLM 27.07)]. FS Date: 1/15/2014					

LM Start	26.74	Rating **	M	Issue No.	2588 (cont)
LM End	26.74	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_28631_52720.jpg



WS view: slant pump and gate valves on wooden platform at levee berm. Wooden walkway to the pump.

Photo 2 of 3 : UCIP_FA_2019_28631_52719.jpg



LS view: siphon breaker in CMP riser on levee slope (bottom) and concrete distribution box on levee toe.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	26.74	Rating **	M	Issue No.	2588 (cont)
LM End	26.74	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			38.968093 °	38.968093 °
				-121.833708 °	-121.833708 °
DWR ID	20015				
Comment Code					
Inspector Comment					
DS_ID:20015 FS_ID:28631 EP_NO: 10052 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Obstructed siphon breaker. Leaky pump. FIELD_STRUCT_DESC: 18-inch steel irrigation discharge pipe through the levee, 7.1 feet below the crown. Corrugated metal cutoff wall. 2-inch conduit through the levee, 5.5 feet below the crown. Wooden walkway to slant pump and gate valve on wooden pump platform mounted on a steel pile structure on the berm. Siphon breaker in a 24-inch corrugated metal pipe (CMP) riser on the landside (LS) slope. Meter pole at the LS toe. (18-inch steel irrigation discharge pipe through the levee, slant pump, and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10052, 1974 - Clifton Lamb, [RM 112.29]). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 128, March 1960, (HLM 27.07)]. FS Date: 1/15/2014					

Photo 3 of 3 : UCIP_FA_2019_28631_52721.jpg



LS view: obstructed siphon breaker in CMP riser on levee slope.

LM Start	27.31	Rating **	M	Issue No.	983
LM End	27.44	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.972552 °	38.972924 °
				-121.825574 °	-121.823198 °
DWR ID	DWR_RD1500_01_s_2015_983				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD1500_189_983_20190829_00076.jpg



View of the ditch on the landward side of the levee looking downstream. Spring 2016.

* Location
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

** Rating
 A : Acceptable N : Not Inspected/Rated
 M : Minimally Acceptable C : Corrected
 U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	27.61	Rating **	M	Issue No.	94
LM End	27.61	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.974258 °	38.974258 °
				-121.820587 °	-121.820587 °
DWR ID	DWR_RD1500_01_f_2018_94				
Comment Code					
ST : Stairway					
Inspector Comment					
Stairs are dug into the landside slope.					

Photo 1 of 1 : FA_2019_RD1500_189_94_20190829_00038.jpg



View of stairs on the landside slope. Fall 2018.

LM Start	28.16	Rating **	M	Issue No.	96
LM End	28.16	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.982180 °	38.982180 °
				-121.819979 °	-121.819979 °
DWR ID	DWR_RD1500_01_s_2018_96				
Comment Code					
ST : Stairway					
Inspector Comment					
Steps are dug out on the landside levee slope.					

Photo 1 of 1 : FA_2019_RD1500_189_96_20190829_00040.jpg



View of steps on the landside slope. Spring 2018.

LM Start	28.23	Rating **	M	Issue No.	38
LM End	29.23	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.983119 °	38.988538 °
				-121.819923 °	-121.806445 °
DWR ID	DWR_RD1500_01_s_2012_38				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD1500_189_38_20190829_00017.jpg



View of the ditch on the landward side of the levee looking upstream. Spring 2016.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	28.23	Rating **	M	Issue No.	92
LM End	28.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.983221°	38.983221°
				-121.819895°	-121.819895°
DWR ID	DWR_RD1500_01_f_2018_92				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes are located at the landside toe.					

Photo 1 of 1 : FA_2019_RD1500_189_92_20190829_00037.jpg



View of rodent holes on the landside slope. Fall 2018.

LM Start	28.30	Rating **	M	Issue No.	135
LM End	28.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.984158 °	38.984158 °
				-121.819868 °	-121.819868 °
DWR ID	DWR_RD1500_01_s_2019_135				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Active rodent holes are at the landside toe.					

No Photos

LM Start	29.51	Rating **	C	Issue No.	122
LM End	29.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.989096 °	38.989096 °
				-121.801387 °	-121.801387 °
DWR ID	DWR_RD1500_01_s_2019_122				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent holes are on the landside shoulder.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

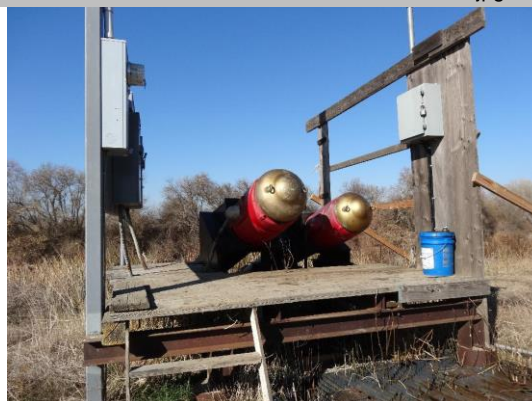
Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	29.91	Rating **	M	Issue No.	2589	
LM End	29.91	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.993006 °	38.993006 °	
				-121.796025 °	-121.796025 °	
DWR ID	20113					
Comment Code						
Inspector Comment						
DS_ID:20113 FS_ID:50194 EP_NO: 10054 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/29/2016: Found no evidence of leakage or subsidence. CMP risers are both silted in and need lids. Need a name change permit for new owner Brad Howalt. Possible sink hole in alignment with pipes on crown has been covered with concrete. Crossing has been downgraded from Urgent to Non-Urgent. (K. Fazel - UCIP)01/15/2014:Levee slope erosion due to leakage from siphon breaker.Water leaking from pipe near distribution box on landside levee toe.Overhead powerline. (P. Amatya - DWR) FIELD_STRUCT_DESC: 2 of 2: 16-inch steel irrigation discharge pipe through the levee, 5 feet below the crown. Corrugated metal cutoff wall. Two siphon breakers in two 24-inch corrugated metal pipe (CMP) risers on the landside (LS) shoulder. Installed by USACE in 1952. Two slant pumps in a corrugated metal pump house mounted on a steel pile structure on the berm. 4-foot by 7-foot concrete inspection box for a Hersey-Sparling water meter on the berm in front of the pump house. Two flap gates in a 9.7-foot by 10.6-foot, outside dimensions, concrete distribution box at the LS toe. (16-inch steel irrigation discharge pipe through the levee, slant pumps, and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10054, 1974 - William A. Lerner). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 128, March 1960, (HLM 30.29), 14-inch pipe referenced]. FS Date: 8/29/2016						

Photo 1 of 3 : UCIP_FA_2019_50194_51834.jpg



WS view: two slant pumps on wooden platform on levee berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	29.91	Rating **	M	Issue No.	2589 (cont)	
LM End	29.91	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.993006 °	38.993006 °	
				-121.796025 °	-121.796025 °	
DWR ID	20113					
Comment Code						
Inspector Comment						
DS_ID:20113 FS_ID:50194 EP_NO: 10054 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/29/2016: Found no evidence of leakage or subsidence. CMP risers are both silted in and need lids. Need a name change permit for new owner Brad Howalt. Possible sink hole in alignment with pipes on crown has been covered with concrete. Crossing has been downgraded from Urgent to Non-Urgent. (K. Fazel - UCIP)01/15/2014:Levee slope erosion due to leakage from siphon breaker.Water leaking from pipe near distribution box on landside levee toe.Overhead powerline. (P. Amatya - DWR) FIELD_STRUCT_DESC: 2 of 2: 16-inch steel irrigation discharge pipe through the levee, 5 feet below the crown. Corrugated metal cutoff wall. Two siphon breakers in two 24-inch corrugated metal pipe (CMP) risers on the landside (LS) shoulder. Installed by USACE in 1952. Two slant pumps in a corrugated metal pump house mounted on a steel pile structure on the berm. 4-foot by 7-foot concrete inspection box for a Hersey-Sparling water meter on the berm in front of the pump house. Two flap gates in a 9.7-foot by 10.6-foot, outside dimensions, concrete distribution box at the LS toe. (16-inch steel irrigation discharge pipe through the levee, slant pumps, and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10054, 1974 - William A. Lerner). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 128, March 1960, (HLM 30.29), 14-inch pipe referenced]. FS Date: 8/29/2016						

Photo 2 of 3 : UCIP_FA_2019_50194_51833.jpg



LS view: CMPs with leaky siphon breakers. Slope erosion and excessive vegetation on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	29.91	Rating **	M	Issue No.	2589 (cont)	
LM End	29.91	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.993006 °	38.993006 °	
				-121.796025 °	-121.796025 °	
DWR ID	20113					
Comment Code						
Inspector Comment						
DS_ID:20113 FS_ID:50194 EP_NO: 10054 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/29/2016: Found no evidence of leakage or subsidence. CMP risers are both silted in and need lids. Need a name change permit for new owner Brad Howalt. Possible sink hole in alignment with pipes on crown has been covered with concrete. Crossing has been downgraded from Urgent to Non-Urgent. (K. Fazel - UCIP)01/15/2014:Levee slope erosion due to leakage from siphon breaker.Water leaking from pipe near distribution box on landside levee toe.Overhead powerline. (P. Amatya - DWR) FIELD_STRUCT_DESC: 2 of 2: 16-inch steel irrigation discharge pipe through the levee, 5 feet below the crown. Corrugated metal cutoff wall. Two siphon breakers in two 24-inch corrugated metal pipe (CMP) risers on the landside (LS) shoulder. Installed by USACE in 1952. Two slant pumps in a corrugated metal pump house mounted on a steel pile structure on the berm. 4-foot by 7-foot concrete inspection box for a Hersey-Sparling water meter on the berm in front of the pump house. Two flap gates in a 9.7-foot by 10.6-foot, outside dimensions, concrete distribution box at the LS toe. (16-inch steel irrigation discharge pipe through the levee, slant pumps, and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10054, 1974 - William A. Lerner). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 128, March 1960, (HLM 30.29), 14-inch pipe referenced]. FS Date: 8/29/2016						

Photo 3 of 3 : UCIP_FA_2019_50194_52880.jpg



LS view: siphon breakers in CMP riser on levee slope and distribution box on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

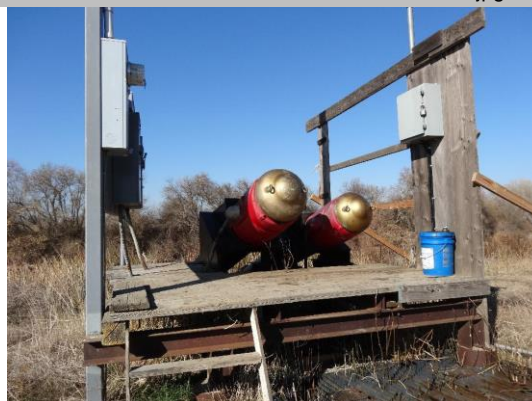
Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	29.91	Rating **	M	Issue No.	2590	
LM End	29.91	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.993006 °	38.993006 °	
				-121.796025 °	-121.796025 °	
DWR ID	20084					
Comment Code						
Inspector Comment						
DS_ID:20084 FS_ID:50201 EP_NO: 10054 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/29/2016: Found no evidence of leakage or subsidence. CMP risers are both silted in and need lids. Need a name change permit for new owner Brad Howalt. Possible sink hole in alignment with pipes on crown has been covered with concrete. Crossing has been downgraded from Urgent to Non-Urgent. (K. Fazel - UCIP)01/15/2014:Levee slope erosion due to leakage from siphon breaker.Water leaking from pipe near distribution box on landside levee toe.Overhead powerline. (P. Amatya - DWR) FIELD_STRUCT_DESC: 1 of 2: 20-inch steel irrigation discharge pipe through the levee, 5 feet below the crown. Corrugated metal cutoff wall. Two siphon breakers in two 24-inch corrugated metal pipe (CMP) risers on the landside (LS) shoulder. Installed by USACE in 1952. Two slant pumps in a corrugated metal pump house mounted on a steel pile structure on the berm. 4-foot by 7-foot concrete inspection box for a Hersey-Sparling water meter on the berm in front of the pump house. Two flap gates in a 9.7-foot by 10.6-foot, outside dimensions, concrete distribution box at the LS toe. (20-inch steel irrigation discharge pipe through the levee, slant pumps, and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10054, 1974 - William A. Lerner). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 128, March 1960, (HLM 30.29), 18-inch pipe referenced]. FS Date: 8/29/2016						

Photo 1 of 3 : UCIP_FA_2019_50201_52855.jpg



WS view: slant pumps and control boxes on steel platform at levee berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	29.91	Rating **	M	Issue No.	2590 (cont)	
LM End	29.91	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.993006 °	38.993006 °	
				-121.796025 °	-121.796025 °	
DWR ID	20084					
Comment Code						
Inspector Comment						
DS_ID:20084 FS_ID:50201 EP_NO: 10054 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/29/2016: Found no evidence of leakage or subsidence. CMP risers are both silted in and need lids. Need a name change permit for new owner Brad Howalt. Possible sink hole in alignment with pipes on crown has been covered with concrete. Crossing has been downgraded from Urgent to Non-Urgent. (K. Fazel - UCIP)01/15/2014:Levee slope erosion due to leakage from siphon breaker.Water leaking from pipe near distribution box on landside levee toe.Overhead powerline. (P. Amatya - DWR) FIELD_STRUCT_DESC: 1 of 2: 20-inch steel irrigation discharge pipe through the levee, 5 feet below the crown. Corrugated metal cutoff wall. Two siphon breakers in two 24-inch corrugated metal pipe (CMP) risers on the landside (LS) shoulder. Installed by USACE in 1952. Two slant pumps in a corrugated metal pump house mounted on a steel pile structure on the berm. 4-foot by 7-foot concrete inspection box for a Hersey-Sparling water meter on the berm in front of the pump house. Two flap gates in a 9.7-foot by 10.6-foot, outside dimensions, concrete distribution box at the LS toe. (20-inch steel irrigation discharge pipe through the levee, slant pumps, and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10054, 1974 - William A. Lerner). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 128, March 1960, (HLM 30.29), 18-inch pipe referenced]. FS Date: 8/29/2016						

Photo 2 of 3 : UCIP_FA_2019_50201_52854.jpg



LS view: siphon breakers in CMP riser on levee slope and distribution box on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	29.91	Rating **	M	Issue No.	2590 (cont)	
LM End	29.91	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			38.993006 °	38.993006 °	
				-121.796025 °	-121.796025 °	
DWR ID	20084					
Comment Code						
Inspector Comment						
DS_ID:20084 FS_ID:50201 EP_NO: 10054 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/29/2016: Found no evidence of leakage or subsidence. CMP risers are both silted in and need lids. Need a name change permit for new owner Brad Howalt. Possible sink hole in alignment with pipes on crown has been covered with concrete. Crossing has been downgraded from Urgent to Non-Urgent. (K. Fazel - UCIP)01/15/2014:Levee slope erosion due to leakage from siphon breaker.Water leaking from pipe near distribution box on landside levee toe.Overhead powerline. (P. Amatya - DWR) FIELD_STRUCT_DESC: 1 of 2: 20-inch steel irrigation discharge pipe through the levee, 5 feet below the crown. Corrugated metal cutoff wall. Two siphon breakers in two 24-inch corrugated metal pipe (CMP) risers on the landside (LS) shoulder. Installed by USACE in 1952. Two slant pumps in a corrugated metal pump house mounted on a steel pile structure on the berm. 4-foot by 7-foot concrete inspection box for a Hersey-Sparling water meter on the berm in front of the pump house. Two flap gates in a 9.7-foot by 10.6-foot, outside dimensions, concrete distribution box at the LS toe. (20-inch steel irrigation discharge pipe through the levee, slant pumps, and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10054, 1974 - William A. Lerner). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 128, March 1960, (HLM 30.29), 18-inch pipe referenced]. FS Date: 8/29/2016						

Photo 3 of 3 : UCIP_FA_2019_50201_52853.jpg



LS view: obstructed and leaky siphon breaker in CMP riser on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	30.07	Rating **	M	Issue No.	2591
LM End	30.07	Issue Type +	En	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DRAFT DWR UCIP Field Study		38.994988 °	38.994988 °	
			-121.794484 °	-121.794484 °	
DWR ID	20107				

Comment Code

Inspector Comment

DS_ID:20107
FS_ID:50193
EP_NO: 6169
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 08/29/2016: Pipe and pump are leaking oil. Could not find evidence of any water leak. Field hand may have spilled oil as there is a puddle of oil beneath the pump. Crossing downgraded from Urgent to Non-Urgent. (K. Fazel - UCIP)01/15/2014: Leaky pump and excessive vegetation observed along pipe alignment on waterside slope of the levee. It needs more investigations. May have new permit for slant pump. (P. Amatya - DWR)
FIELD_STRUCT_DESC: 30-inch reinforced concrete encased steel irrigation discharge pipe through the levee, 15.5 feet below the crown. Two reinforced concrete cutoff walls. Slant pump and switch panel on steel pile structure at the edge of the berm. Slide gate in a 2.5-foot by 3.5-foot, inside dimensions, concrete riser on the berm. Pipe discharges into a 6-foot by 8-foot concrete distribution box at the landside (LS) toe. 2-inch conduit through the levee, 2.5 feet below the crown.
(Replacement of an old pit pump with a new slant pump authorized under Permit No. 6169, 1968 - Leslie A. Butler). Pipe through the levee was initially installed in 1952. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 128, March 1960 (HLM 30.46)].
FS Date: 8/29/2016

LM Start	30.07	Rating **	M	Issue No.	2591 (cont)
LM End	30.07	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_50193_51827.jpg



WS view: leaky slant pump on levee berm.

Photo 2 of 3 : UCIP_FA_2019_50193_51826.jpg



WS view: concrete surge box with slide gate on levee berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	30.07	Rating **	M	Issue No.	2591 (cont)					
LM End	30.07	Issue Type +	En	Location *						
Category	Supplemental		GPS Latitude/Longitude							
			Start	End						
Item	DRAFT DWR UCIP Field Study		38.994988 °	38.994988 °						
			-121.794484 °	-121.794484 °						
DWR ID	20107									
Comment Code										
Inspector Comment										
DS_ID:20107 FS_ID:50193 EP_NO: 6169 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 08/29/2016: Pipe and pump are leaking oil. Could not find evidence of any water leak. Field hand may have spilled oil as there is a puddle of oil beneath the pump. Crossing downgraded from Urgent to Non-Urgent. (K. Fazel - UCIP)01/15/2014: Leaky pump and excessive vegetation observed along pipe alignment on waterside slope of the levee. It needs more investigations. May have new permit for slant pump. (P. Amatya - DWR) FIELD_STRUCT_DESC: 30-inch reinforced concrete encased steel irrigation discharge pipe through the levee, 15.5 feet below the crown. Two reinforced concrete cutoff walls. Slant pump and switch panel on steel pile structure at the edge of the berm. Slide gate in a 2.5-foot by 3.5-foot, inside dimensions, concrete riser on the berm. Pipe discharges into a 6-foot by 8-foot concrete distribution box at the landside (LS) toe. 2-inch conduit through the levee, 2.5 feet below the crown. (Replacement of an old pit pump with a new slant pump authorized under Permit No. 6169, 1968 - Leslie A. Butler). Pipe through the levee was initially installed in 1952. [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 128, March 1960 (HLM 30.46)]. FS Date: 8/29/2016										

Photo 3 of 3 : UCIP_FA_2019_50193_51825.jpg



WS view: excessive vegetation along pipe alignment on levee slope.

LM Start	30.22	Rating **	M	Issue No.	45					
LM End	30.22	Issue Type +	En	Location *	LS					
Category	Earthen Levee		GPS Latitude/Longitude							
			Start	End						
Item	Vegetation		38.997027 °	38.997027 °						
			-121.794755 °	-121.794755 °						
DWR ID	DWR_RD1500_01_s_2012_45									
Comment Code										
V6 : Landscaping										
Inspector Comment										

Photo 1 of 1 : FA_2019_RD1500_189_45_20190829_00019.jpg



View of the groundcover on the landward side of the levee looking downstream. Spring 2016.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	30.60	Rating **	A/W	Issue No.	82
LM End	30.75	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			38.999745 °	39.001413 °
				-121.800898 °	-121.802889 °
DWR ID	DWR_RD1500_01_f_2018_82				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 116.0 L					
Status: Eroding					
2017 Field Notes: Minor new erosion throughout the site.					
Site History: 2000 - Eroding, vertical berm slope over a vertical cohesive toe; slow erosion but getting close to the toe. 2002 - Erosion is getting close to the levee, still eroding with some new small slumps.					
2004 - Some minor new erosion. 2006 - Some new erosion, cleaned off older scars and slump faces. 2008 - New, small, partial rotational failure. 2011 - Some new minor erosion. 2016 - Fresh erosion on lower bank.					

Photo 1 of 1 : FA_2019_RD1500_189_82_20190829_00030.jpg



USACE 2013 Photo #1

LM Start	30.87	Rating **	M	Issue No.	2592
LM End	30.87	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.002960 °	39.002960 °
				-121.803736 °	-121.803736 °
DWR ID	20000				
Comment Code					
Inspector Comment					
DS_ID:20000 FS_ID:28144 EP_NO: 15916 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Surface erosion due to leaky pressure breaker on landside slope. FIELD_STRUCT_DESC: 18-inch steel irrigation discharge pipe through the levee, at an unknown depth. Waterside (WS) pump not mentioned in the Levee Log. Siphon breaker in a 24-inch corrugated metal pipe (CMP) riser on the landside (LS) slope. Pipe discharges into a 6-foot by 8-foot, inside dimensions, concrete distribution box at the LS toe. Installed by USACE in 1951. (12-inch steel irrigation discharge pipe through the levee and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10034, 1974 - Leslie A. Butler. Replacement of the existing 12-inch discharge pipe with a new 18-inch discharge pipe through the levee authorized under Permit No. 15916, 1992 - Leslie A. Butler). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 128, March 1960, (HLM 31.26)]. FS Date: 1/15/2014					

Photo 1 of 3 : UCIP_FA_2019_28144_51812.jpg



WS view: pump in CM pump house on levee shoulder. Looks abandoned.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	30.87	Rating **	M	Issue No.	2592 (cont)	
LM End	30.87	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			39.002960 °	39.002960 °	
				-121.803736 °	-121.803736 °	
DWR ID	20000					
Comment Code						
Inspector Comment						
DS_ID:20000 FS_ID:28144 EP_NO: 15916 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Surface erosion due to leaky pressure breaker on landside slope. FIELD_STRUCT_DESC: 18-inch steel irrigation discharge pipe through the levee, at an unknown depth. Waterside (WS) pump not mentioned in the Levee Log. Siphon breaker in a 24-inch corrugated metal pipe (CMP) riser on the landside (LS) slope. Pipe discharges into a 6-foot by 8-foot, inside dimensions, concrete distribution box at the LS toe. Installed by USACE in 1951. (12-inch steel irrigation discharge pipe through the levee and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10034, 1974 - Leslie A. Butler. Replacement of the existing 12-inch discharge pipe with a new 18-inch discharge pipe through the levee authorized under Permit No. 15916, 1992 - Leslie A. Butler). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 128, March 1960, (HLM 31.26)]. FS Date: 1/15/2014						

LM Start	30.87	Rating **	M	Issue No.	2592 (cont)
LM End	30.87	Issue Type +	En	Location *	

Photo 2 of 3 : UCIP_FA_2019_28144_51811.jpg



LS view: obstructed and leaked pressure breaker in CMP on levee slope.

Photo 3 of 3 : UCIP_FA_2019_28144_51815.jpg



LS view: corroded flap gate in concrete distribution box.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	30.94	Rating **	A/W	Issue No.	83
LM End	31.60	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey			39.003301 °	39.006072 °
				-121.805024 °	-121.815926 °
DWR ID	DWR_RD1500_01_f_2018_83				
Comment Code					
Inspector Comment					
2017 Site ID: SAC 116.5 L					
Status: Eroding					
2017 Field Notes: pipe and pump encroachment. site has been stable for a few years.					
Site History: 2003 - New sedimentation and some new small toe scallops at the upstream end; downstream end has some new erosion. 2004 - Some new erosion at the toe and upper bank and some small new rotational failures (mainly minor, except at the downstream end). 2007 - Some new slumps. 2009 - Some new scallops and site was extended upstream. 2010 - New deposition along upstream end of site, however there is also new erosion throughout the site. Site seems to be worsening, and eroding fast. Large habitat for bank swallows. 2011 - Some new minor erosion. 2012 - Minor new erosion. 2016 - Fresh erosion on lower bank.					

Photo 1 of 1 : FA_2019_RD1500_189_83_20190829_00031.jpg



USACE 2013 Photo #1

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Fall 2019

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	31.61	Rating **	M	Issue No.	2593 (cont)
LM End	31.61	Issue Type +	En	Location *	

WS view: concrete surge box on levee slope.

WS view: abandoned walkway, pipe, and pump on river bank.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	31.61	Rating **	M	Issue No.	2593 (cont)	
LM End	31.61	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			39.006484 °	39.006484 °	
				-121.816168 °	-121.816168 °	
DWR ID	20077					
Comment Code						
Inspector Comment						
DS_ID:20077 FS_ID:28143 EP_NO: 9657 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Looks abandoned. May need proper abandonment.Overhead power line. FIELD_STRUCT_DESC: *ABANDONED* 20-inch steel irrigation discharge pipe through the levee, 15 feet below the crown. Wooden step and walkway to vertical pump on pile structure in the river. Slide gate in a 2.5-foot by 3-foot, inside dimensions, riser. Concrete distribution box on the waterside (WS) slope. Switch panel on the berm. Pipe discharges into a 36-inch, inside diameter, concrete standpipe on the landside (LS). Installed by USACE in 1947. (Replacement of a section of 24-inch irrigation pipe through the levee authorized under Permit No. 9657, 1974 - Clyde M. Bell. 1.5-foot by 2-foot concrete culvert through the levee and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10030, 1974 - Clyde M. Bell. Replacement of a cracked concrete pipe with a steel pipe at the LS toe authorized under Permit No. 13536, 1982 - Niechen N. V., Alfred Montna, Manager. Replacement of approximately 90 feet of 18-inch pipe in the overflow area of the Sacramento River with new steel pipe authorized under Permit No. 13941, 1984 - Niechen N. V., Alfred Montna, Manager). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 32.02), 2-foot by 2-foot concrete culvert referenced]. FS Date: 1/15/2014						

Photo 3 of 3 : UCIP_FA_2019_28143_51803.jpg



LS view: concrete standpipe on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	32.42	Rating **	M	Issue No.	60
LM End	32.57	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.013749 °	39.015620 °
				-121.825065 °	-121.823461 °
DWR ID	DWR_RD1500_01_s_2012_60				
Comment Code					
DT : Ditch					
Inspector Comment					
Ditch is located at the toe of the levee.					

Photo 1 of 1 : FA_2019_RD1500_189_60_20190829_00023.jpg



View of the ditch on the landward side of the levee looking upstream.
Spring 2016.

LM Start	32.55	Rating **	M	Issue No.	2594	
LM End	32.55	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			39.015277 °	39.015277 °	
				-121.823735 °	-121.823735 °	
DWR ID	20018					
Comment Code						
Inspector Comment						
DS_ID:20018						
FS_ID:28943						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipe leaks near pump through a hole in the pipe.						
Needs repair.An electric conduit through the levee. Concrete						
distribution box on landside levee toe. Slide gate in CMP on waterside						
slope.						
FIELD_STRUCT_DESC: 30-inch reinforced concrete encased steel						
irrigation discharge pipe through the levee, 16 feet below the crown. 2-						
inch steel conduit through the levee. Two reinforced concrete cutoff						
walls. Vertical pump on a structure in the river. Slide gate in a 48-inch						
corrugated metal pipe (CMP) riser on the waterside (WS) slope. Power						
pole and switch panel on the WS slope. Pipe discharges into a 5-foot by						
5-foot concrete distribution box in an irrigation ditch at the landside (LS)						
toe. Power pole at the LS toe. Installed by USACE in 1964. (30-inch						
reinforced concrete encased steel irrigation discharge pipe through the						
levee, vertical pump, and all other appurtenances retained under						
Automatic Board Order (ABO) issued as Permit No. 10079, 1974 -						
Russell L. Young). [Additional Reference(s): DWR Levee Log, 1993.						
USACE Sacramento O&M Manual 128, March 1960, (HLM 32.97)].						
FS Date: 1/15/2014						

Photo 1 of 3 : UCIP_FA_2019_28943_53222.jpg



WS view: power control panel and CMP riser with slide gate on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	32.55	Rating **	M	Issue No.	2594 (cont)	
LM End	32.55	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			39.015277 °	39.015277 °	
				-121.823735 °	-121.823735 °	
DWR ID	20018					
Comment Code						
Inspector Comment						
DS_ID:20018 FS_ID:28943 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe leaks near pump through a hole in the pipe. Needs repair.An electric conduit through the levee. Concrete distribution box on landside levee toe. Slide gate in CMP on waterside slope. FIELD_STRUCT_DESC: 30-inch reinforced concrete encased steel irrigation discharge pipe through the levee, 16 feet below the crown. 2-inch steel conduit through the levee. Two reinforced concrete cutoff walls. Vertical pump on a structure in the river. Slide gate in a 48-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Power pole and switch panel on the WS slope. Pipe discharges into a 5-foot by 5-foot concrete distribution box in an irrigation ditch at the landside (LS) toe. Power pole at the LS toe. Installed by USACE in 1964. (30-inch reinforced concrete encased steel irrigation discharge pipe through the levee, vertical pump, and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10079, 1974 - Russell L. Young). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 128, March 1960, (HLM 32.97)]. FS Date: 1/15/2014						

Photo 2 of 3 : UCIP_FA_2019_28943_53221.jpg



WS view: pump on river bank protected by concrete headwall. Leaky pipe near pump.

LM Start	32.55	Rating **	M	Issue No.	2594 (cont)
LM End	32.55	Issue Type +	En	Location *	

Photo 3 of 3 : UCIP_FA_2019_28943_53220.jpg



LS view: steel pipe in concrete distribution box on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	32.84	Rating **	M	Issue No.	110
LM End	32.84	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.018852 °	39.018852 °
				-121.820766 °	-121.820766 °
DWR ID	DWR_RD1500_01_f_2017_110				
Comment Code					
DE : Debris					
Inspector Comment					
There is an abandoned pipe on the waterside slope.					

No Photos

LM Start	32.96	Rating **	M	Issue No.	46
LM End	32.96	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.020550 °	39.020550 °
				-121.820315 °	-121.820315 °
DWR ID	DWR_RD1500_01_s_2012_46				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD1500_189_46_20190829_00020.jpg



The building is within the easement of the levee toe.

LM Start	32.98	Rating **	M	Issue No.	144
LM End	32.98	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.020782 °	39.020782 °
				-121.820275 °	-121.820275 °
DWR ID	DWR_RD1500_01_s_2017_144				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
There is runoff erosion on the landside slope.					

Photo 1 of 1 : FA_2019_RD1500_189_144_20190829_00067.jpg



View of erosion on landside slope. Spring 2017.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	32.98	Rating **	M	Issue No.	107
LM End	32.98	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.020874 °	39.020874 °
				-121.820266 °	-121.820266 °
DWR ID	DWR_RD1500_01_f_2016_107				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD1500_189_107_20190829_00046.jpg



View of rodent burrows on landside slope. Fall 2016.

LM Start	32.99	Rating **	A/W	Issue No.	106
LM End	32.99	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.021016 °	39.021016 °
				-121.820261 °	-121.820261 °
DWR ID	DWR_RD1500_01_f_2016_106				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	33.13	Rating **	M	Issue No.	2595	
LM End	33.13	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			39.022938 °	39.022938 °	
				-121.820717 °	-121.820717 °	
DWR ID	20080					
Comment Code						
Inspector Comment						
DS_ID:20080 FS_ID:28953 EP_NO: 5617 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Not found- slide gate in 54 inch corrugated metal riser on waterside berm.Two 16-inch steel pipes (looks new). Leaky pipe near pump.Plant was working during field visit.Needs more info from LMA. There may be a new permit. FIELD_STRUCT_DESC: 1 of 2: 16-inch steel irrigation discharge pipe through the levee, at an unknown depth. Two slant pumps on a steel platform and under the shed. Two air vents on the waterside (WS) levee shoulder. Two pipes with gate valves discharge water into irrigation ditch on the landside (LS). Meter pole on landside toe. Previously only a 30-inch steel pipe through the levee and a slide gate in a corrugated metal pipe (CMP) riser on the WS. (Removal of existing structure in river, installation of an incline structure next to the levee with new slant pumps, connected to existing discharge pipe authorized under Permit Nos. 5617, 1967 - Adda Seamans, and 5617-A, 1968 - Oji Brothers Farm, Inc.). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 33.56), 36-inch pipe referenced]. FS Date: 1/15/2014						

LM Start	33.13	Rating **	M	Issue No.	2595 (cont)
LM End	33.13	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_28953_53256.jpg



WS view: slant pumps on steel platform in shed on berm.

Photo 2 of 3 : UCIP_FA_2019_28953_53255.jpg



WS view: closer view of slant pumps on steel platform in shed on berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	33.13	Rating **	M	Issue No.	2595 (cont)
LM End	33.13	Issue Type +	En	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP Field Study			39.022938 °	39.022938 °
				-121.820717 °	-121.820717 °
DWR ID	20080				
Comment Code					
Inspector Comment					
DS_ID:20080 FS_ID:28953 EP_NO: 5617 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Not found- slide gate in 54 inch corrugated metal riser on waterside berm.Two 16-inch steel pipes (looks new). Leaky pipe near pump.Plant was working during field visit.Needs more info from LMA. There may be a new permit. FIELD_STRUCT_DESC: 1 of 2: 16-inch steel irrigation discharge pipe through the levee, at an unknown depth. Two slant pumps on a steel platform and under the shed. Two air vents on the waterside (WS) levee shoulder. Two pipes with gate valves discharge water into irrigation ditch on the landside (LS). Meter pole on landside toe. Previously only a 30-inch steel pipe through the levee and a slide gate in a corrugated metal pipe (CMP) riser on the WS. (Removal of existing structure in river, installation of an incline structure next to the levee with new slant pumps, connected to existing discharge pipe authorized under Permit Nos. 5617, 1967 - Adda Seamans, and 5617-A, 1968 - Oji Brothers Farm, Inc.). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 33.56), 36-inch pipe referenced]. FS Date: 1/15/2014					

Photo 3 of 3 : UCIP_FA_2019_28953_53254.jpg



WS view: oil and water leaking from pipe near pump.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	33.13	Rating **	M	Issue No.	2596	
LM End	33.13	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			39.022956 °	39.022956 °	
				-121.820716 °	-121.820716 °	
DWR ID	24758					
Comment Code						
Inspector Comment						
DS_ID:24758 FS_ID:28952 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Not found- slide gate in 54 inch corrugated metal riser on waterside berm.Two 16-inch steel pipes (looks new). Leaky pipe near pump.Plant was working during field visit.Needs more info from LMA. There may be a new permit. FIELD_STRUCT_DESC: 2 of 2: 16-inch steel irrigation discharge pipe through the levee, at an unknown depth. Two slant pumps on a steel platform and under the shed. Two air vents on the waterside (WS) levee shoulder. Two pipes with gate valves discharge water into irrigation ditch on the landside (LS). Meter pole on landside toe. Previously only a 30-inch steel pipe through the levee and a slide gate in a corrugated metal pipe (CMP) riser on the WS. (Removal of existing structure in river, installation of an incline structure next to the levee with new slant pumps, connected to existing discharge pipe authorized under Permit Nos. 5617, 1967 - Adda Seamans, and 5617-A, 1968 - Oji Brothers Farm, Inc.). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 33.56), 36-inch pipe referenced]. FS Date: 1/15/2014						

LM Start	33.13	Rating **	M	Issue No.	2596 (cont)
LM End	33.13	Issue Type +	En	Location *	

Photo 1 of 3 : UCIP_FA_2019_28952_53249.jpg



WS view: pump platform and shed on levee berm.

Photo 2 of 3 : UCIP_FA_2019_28952_53248.jpg



WS view: two slant pumps on steel platform at waterside berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	33.15	10/30/2019 10/30/2019	Zach Jojola

LM Start	33.13	Rating **	M	Issue No.	2596 (cont)	
LM End	33.13	Issue Type +	En	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP Field Study			39.022956 °	39.022956 °	
				-121.820716 °	-121.820716 °	
DWR ID	24758					
Comment Code						
Inspector Comment						
DS_ID:24758 FS_ID:28952 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Not found- slide gate in 54 inch corrugated metal riser on waterside berm.Two 16-inch steel pipes (looks new). Leaky pipe near pump.Plant was working during field visit.Needs more info from LMA. There may be a new permit. FIELD_STRUCT_DESC: 2 of 2: 16-inch steel irrigation discharge pipe through the levee, at an unknown depth. Two slant pumps on a steel platform and under the shed. Two air vents on the waterside (WS) levee shoulder. Two pipes with gate valves discharge water into irrigation ditch on the landside (LS). Meter pole on landside toe. Previously only a 30-inch steel pipe through the levee and a slide gate in a corrugated metal pipe (CMP) riser on the WS. (Removal of existing structure in river, installation of an incline structure next to the levee with new slant pumps, connected to existing discharge pipe authorized under Permit Nos. 5617, 1967 - Adda Seamans, and 5617-A, 1968 - Oji Brothers Farm, Inc.). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 128, March 1960, (HLM 33.56), 36-inch pipe referenced]. FS Date: 1/15/2014						

Photo 3 of 3 : UCIP_FA_2019_28952_53247.jpg



WS view: oil and water leakage from pipe near pump.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2019 Levee Inspection Results

Reclamation District No. 1500 Sutter Basin

Waterway			Bank	Unit Miles
Unit No. 02 Sutter Bypass			Right	20.72
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M *	
Date of Inspection	4/24/2019 - 4/24/2019		10/31/2019 - 10/31/2019	
DWR Inspector	Zach Jojola		Zach Jojola	
Accompanied By			Jon Scott Reclamation District 1500	

* Overall LMA Threshold Percent is less than 10.00%; however, U Rated Miles are present, so the Overall LMA Rating is M instead of A.

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- completion of the inspection
- any changes other than the results of normal maintenance
- corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/31/2019 10/31/2019	Zach Jojola

LM Start	0.00	Rating **	M	Issue No.	12
LM End	0.00	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.761121 °	38.761121 °
				-121.674592 °	-121.674592 °
DWR ID	DWR_RD1500_02_s_2012_12				
Comment Code					
EQ : Equipment					
Inspector Comment					

View of the equipment on the levee crown looking upstream. Spring 2016.

LM Start	0.13	Rating **	M	Issue No.	39
LM End	0.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.762429 °	38.762429 °
				-121.672924 °	-121.672924 °
DWR ID	DWR_RD1500_02_f_2017_39				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
There is a rodent hole near the landside toe.					

View of rodent hole on landside slope. Fall 2017.

LM Start	0.14	Rating **	M	Issue No.	16
LM End	0.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.762564 °	38.762564 °
				-121.672771 °	-121.672771 °
DWR ID	DWR_RD1500_02_f_2018_16				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
There are multiple holes on the landside slope.					

A large pile of dark, loose soil or mulch, likely the product of the mulch-making process, with a white pickup truck parked on a dirt road in the background.

View of rodent holes on the landside slope. Fall 2018.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/31/2019 10/31/2019	Zach Jojola

LM Start	1.92	Rating **	A/W	Issue No.	40
LM End	1.92	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			38.783865 °	38.783865 °
				-121.655170 °	-121.655170 °
DWR ID	20020				

Comment Code

Inspector Comment

DS_ID:20020
FS_ID:28886
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: Pumping plat was working during the field visit. Hydraulic gates on outfall structure. Motorized slide gates on waterside shoulder.
FIELD_STRUCT_DESC: [Reclamation District No. 1500, Pumping Plant No. 3] 1 of 4: 72-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee, 35 feet below the crown. Two concrete cutoff walls. Pumps in concrete pumping plant on the landside (LS). Timber steps on the LS slope. Two service poles and anchors on the LS shoulder. Electrical control gates in a metal and concrete building on the waterside (WS) shoulder. Flap gates on the WS end. Installed by USACE in 1950. (Construction of a four compartment concrete gravity outlet conduit under the levee authorized under Permit No. 1284, 1948 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 129, June 1954, (Station 1227+00)].
FS Date: 1/21/2014

LM Start	1.92	Rating **	A/W	Issue No.	40 (cont)
LM End	1.92	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2019_28886_53098.jpg



WS view: CM shed for slide gate on levee shoulder (top) and outfall structure at levee toe (bottom).

Photo 2 of 3 : UCIP_FA_2019_28886_53096.jpg



WS view: motorized slide gates in CM shed on levee shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/31/2019 10/31/2019	Zach Jojola

LM Start	1.92	Rating **	A/W	Issue No.	40 (cont)							
LM End	1.92	Issue Type +	Ma	Location *								
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	DRAFT DWR UCIP LMA Responsibility		38.783865 °	38.783865 °								
			-121.655170 °	-121.655170 °								
DWR ID	20020											
Comment Code												
Inspector Comment												
DS_ID:20020 FS_ID:28886 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: Pumping plat was working during the field visit. Hydraulic gates on outfall structure. Motorized slide gates on waterside shoulder. FIELD_STRUCT_DESC: [Reclamation District No. 1500, Pumping Plant No. 3] 1 of 4: 72-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee, 35 feet below the crown. Two concrete cutoff walls. Pumps in concrete pumping plant on the landside (LS). Timber steps on the LS slope. Two service poles and anchors on the LS shoulder. Electrical control gates in a metal and concrete building on the waterside (WS) shoulder. Flap gates on the WS end. Installed by USACE in 1950. (Construction of a four compartment concrete gravity outlet conduit under the levee authorized under Permit No. 1284, 1948 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 129, June 1954, (Station 1227+00)]. FS Date: 1/21/2014												

Photo 3 of 3 : UCIP_FA_2019_28886_53097.jpg



LS view: pump house at the end of levee berm.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/31/2019 10/31/2019	Zach Jojola

LM Start	1.92	Rating **	A/W	Issue No.	41
LM End	1.92	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			38.783885 °	38.783885 °
				-121.655158 °	-121.655158 °
DWR ID	20027				
Comment Code					
Inspector Comment					
DS_ID:20027 FS_ID:28883 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: Pumping plat was working during the field visit.Hydraulic gates on outfall structure. Motorized slide gates on waterside shoulder. FIELD_STRUCT_DESC: [Reclamation District No. 1500, Pumping Plant No. 3] 2 of 4: 72-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee, 35 feet below the crown. Two concrete cutoff walls. Pumps in concrete pumping plant on the landside (LS). Timber steps on the LS slope. Two service poles and anchors on the LS shoulder. Electrical control gates in a metal and concrete building on the waterside (WS) shoulder. Flap gates on the WS end. Installed by USACE in 1950. (Construction of a four compartment concrete gravity outlet conduit under the levee authorized under Permit No. 1284, 1948 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 129, June 1954, (Station 1227+00)]. FS Date: 1/21/2014					

LM Start	1.92	Rating **	A/W	Issue No.	41 (cont)
LM End	1.92	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2019_28883_53085.jpg



WS view: CM shed for slide gate on levee shoulder (top) and outfall structure at levee toe (bottom).

Photo 2 of 3 : UCIP_FA_2019_28883_53083.jpg



WS view: motorized slide gates in CM shed on levee shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/31/2019 10/31/2019	Zach Jojola

LM Start	1.92	Rating **	A/W	Issue No.	41 (cont)	
LM End	1.92	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			38.783885 °	38.783885 °	
				-121.655158 °	-121.655158 °	
DWR ID	20027					
Comment Code						
Inspector Comment						
DS_ID:20027 FS_ID:28883 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: Pumping plat was working during the field visit.Hydraulic gates on outfall structure. Motorized slide gates on waterside shoulder. FIELD_STRUCT_DESC: [Reclamation District No. 1500, Pumping Plant No. 3] 2 of 4: 72-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee, 35 feet below the crown. Two concrete cutoff walls. Pumps in concrete pumping plant on the landside (LS). Timber steps on the LS slope. Two service poles and anchors on the LS shoulder. Electrical control gates in a metal and concrete building on the waterside (WS) shoulder. Flap gates on the WS end. Installed by USACE in 1950. (Construction of a four compartment concrete gravity outlet conduit under the levee authorized under Permit No. 1284, 1948 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 129, June 1954, (Station 1227+00)]. FS Date: 1/21/2014						

Photo 3 of 3 : UCIP_FA_2019_28883_53084.jpg



LS view: pump house at the end of levee berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/31/2019 10/31/2019	Zach Jojola

LM Start	1.92	Rating **	A/W	Issue No.	42
LM End	1.92	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			38.783904 °	38.783904 °
				-121.655149 °	-121.655149 °
DWR ID	20028				

Comment Code

Inspector Comment

DS_ID:20028
FS_ID:28884
EP_NO: N/A
Repair Type: No Action Needed
Crossing Status: Found
UCIP Comments: Pumping plat was working during the field visit. Hydraulic gates on outfall structure. Motorized slide gates on waterside shoulder.
FIELD_STRUCT_DESC: [Reclamation District No. 1500, Pumping Plant No. 3] 3 of 4: 72-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee, 35 feet below the crown. Two concrete cutoff walls. Pumps in concrete pumping plant on the landside (LS). Timber steps on the LS slope. Two service poles and anchors on the LS shoulder. Electrical control gates in a metal and concrete building on the waterside (WS) shoulder. Flap gates on the WS end. Installed by USACE in 1950. (Construction of a four compartment concrete gravity outlet conduit under the levee authorized under Permit No. 1284, 1948 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 129, June 1954, (Station 1227+00)].
FS Date: 1/21/2014

LM Start	1.92	Rating **	A/W	Issue No.	42 (cont)
LM End	1.92	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2019_28884_53089.jpg



WS view: CM shed for slide gate on levee shoulder (top) and outfall structure at levee toe (bottom).

Photo 2 of 3 : UCIP_FA_2019_28884_53088.jpg



WS view: motorized slide gates in CM shed on levee shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/31/2019 10/31/2019	Zach Jojola

LM Start	1.92	Rating **	A/W	Issue No.	42 (cont)	
LM End	1.92	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			38.783904 °	38.783904 °	
				-121.655149 °	-121.655149 °	
DWR ID	20028					
Comment Code						
Inspector Comment						
DS_ID:20028 FS_ID:28884 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: Pumping plat was working during the field visit.Hydraulic gates on outfall structure. Motorized slide gates on waterside shoulder. FIELD_STRUCT_DESC: [Reclamation District No. 1500, Pumping Plant No. 3] 3 of 4: 72-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee, 35 feet below the crown. Two concrete cutoff walls. Pumps in concrete pumping plant on the landside (LS). Timber steps on the LS slope. Two service poles and anchors on the LS shoulder. Electrical control gates in a metal and concrete building on the waterside (WS) shoulder. Flap gates on the WS end. Installed by USACE in 1950. (Construction of a four compartment concrete gravity outlet conduit under the levee authorized under Permit No. 1284, 1948 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 129, June 1954, (Station 1227+00)]. FS Date: 1/21/2014						

Photo 3 of 3 : UCIP_FA_2019_28884_53099.jpg



LS view: pump house at the end of levee berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/31/2019 10/31/2019	Zach Jojola

LM Start	1.92	Rating **	A/W	Issue No.	43	
LM End	1.92	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			38.783924 °	38.783924 °	
				-121.655140 °	-121.655140 °	
DWR ID	20029					
Comment Code						
Inspector Comment						
DS_ID:20029 FS_ID:28885 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: Pumping plat was working during the field visit.Hydraulic gates on outfall structure. Motorized slide gates on waterside shoulder. FIELD_STRUCT_DESC: [Reclamation District No. 1500, Pumping Plant No. 3] 4 of 4: 72-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee, 35 feet below the crown. Two concrete cutoff walls. Pumps in concrete pumping plant on the landside (LS). Timber steps on the LS slope. Two service poles and anchors on the LS shoulder. Electrical control gates in a metal and concrete building on the waterside (WS) shoulder. Flap gates on the WS end. Installed by USACE in 1950. (Construction of a four compartment concrete gravity outlet conduit under the levee authorized under Permit No. 1284, 1948 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 129, June 1954, (Station 1227+00)]. FS Date: 1/21/2014						

LM Start	1.92	Rating **	A/W	Issue No.	43 (cont)
LM End	1.92	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2019_28885_53095.jpg



WS view: CM shed for slide gate on levee shoulder (top) and outfall structure at levee toe (bottom).

Photo 2 of 3 : UCIP_FA_2019_28885_53094.jpg



WS view: motorized slide gates in CM shed on levee shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/31/2019 10/31/2019	Zach Jojola

LM Start	1.92	Rating **	A/W	Issue No.	43 (cont)							
LM End	1.92	Issue Type +	Ma	Location *								
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	DRAFT DWR UCIP LMA Responsibility		38.783924 °	38.783924 °								
			-121.655140 °	-121.655140 °								
DWR ID	20029											
Comment Code												
Inspector Comment												
DS_ID:20029 FS_ID:28885 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: Pumping plat was working during the field visit. Hydraulic gates on outfall structure. Motorized slide gates on waterside shoulder. FIELD_STRUCT_DESC: [Reclamation District No. 1500, Pumping Plant No. 3] 4 of 4: 72-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee, 35 feet below the crown. Two concrete cutoff walls. Pumps in concrete pumping plant on the landside (LS). Timber steps on the LS slope. Two service poles and anchors on the LS shoulder. Electrical control gates in a metal and concrete building on the waterside (WS) shoulder. Flap gates on the WS end. Installed by USACE in 1950. (Construction of a four compartment concrete gravity outlet conduit under the levee authorized under Permit No. 1284, 1948 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 129, June 1954, (Station 1227+00)]. FS Date: 1/21/2014												

Photo 3 of 3 : UCIP_FA_2019_28885_53093.jpg



LS view: pump house at the end of levee berm.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

Levee Inspection Report By Mile - Fall 2019

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/31/2019 10/31/2019	Zach Jojola

Photo 1 of 3 : UCIP_FA_2019_28954_53260.jpg



WS view: U type concrete headwall and flap gates on levee toe.

Photo 2 of 3 : UCIP_FA_2019_28954_53259.jpg



WS view: concrete surge structure on waterside shoulder.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/31/2019 10/31/2019	Zach Jojola

LM Start	1.93	Rating **	A/W	Issue No.	44 (cont)	
LM End	1.93	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			38.784097°	38.784097°	
				-121.655073°	-121.655073°	
DWR ID	20019					
Comment Code						
Inspector Comment						
DS_ID:20019 FS_ID:28954 EP_NO: 10088 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: USED Bench Mark on concrete structure at waterside shoulder. FIELD_STRUCT_DESC: [Reclamation District No. 1500, Pumping Plant No. 2] 1 of 3: 48-inch by 48-inch reinforced concrete box drainage discharge conduit under the levee, 37 feet below the crown. Two concrete cutoff walls. Pumps in concrete pumping plant on the landside (LS). Slide gates mounted on a concrete structure on the waterside (WS) slope. Discharges in borrow pit. Flap gates on the WS end. (48-inch by 48-inch reinforced concrete box drainage discharge conduit under the levee and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10088, 1974 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 129, June 1954, (Station 1226+00)]. FS Date: 1/21/2014						

Photo 3 of 3 : UCIP_FA_2019_28954_53262.jpg



WS view: USED Bench Mark on concrete structure on levee shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/31/2019 10/31/2019	Zach Jojola

LM Start	1.93	Rating **	A/W	Issue No.	45	
LM End	1.93	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			38.784111 °	38.784111 °	
				-121.655067 °	-121.655067 °	
DWR ID	20025					
Comment Code						
Inspector Comment						
DS_ID:20025 FS_ID:28955 EP_NO: 10088 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: USED Bench Mark on concrete structure at levee shoulder. FIELD_STRUCT_DESC: [Reclamation District No. 1500, Pumping Plant No. 2] 2 of 3: 48-inch by 48-inch reinforced concrete box drainage discharge conduit under the levee, 37 feet below the crown. Two concrete cutoff walls. Pumps in concrete pumping plant on the landside (LS). Slide gates mounted on a concrete structure on the waterside (WS) slope. Discharges in borrow pit. Flap gates on the WS end. (48-inch by 48-inch reinforced concrete box drainage discharge conduit under the levee and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10088, 1974 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 129, June 1954, (Station 1226+00)]. FS Date: 1/21/2014						

LM Start	1.93	Rating **	A/W	Issue No.	45 (cont)
LM End	1.93	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2019_28955_53265.jpg



WS view: U type concrete headwall and flap gates on levee toe.

Photo 2 of 3 : UCIP_FA_2019_28955_53263.jpg



WS view: concrete surge structure on waterside shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/31/2019 10/31/2019	Zach Jojola

LM Start	1.93	Rating **	A/W	Issue No.	45 (cont)	
LM End	1.93	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			38.784111 °	38.784111 °	
				-121.655067 °	-121.655067 °	
DWR ID	20025					
Comment Code						
Inspector Comment						
DS_ID:20025 FS_ID:28955 EP_NO: 10088 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: USED Bench Mark on concrete structure at levee shoulder. FIELD_STRUCT_DESC: [Reclamation District No. 1500, Pumping Plant No. 2] 2 of 3: 48-inch by 48-inch reinforced concrete box drainage discharge conduit under the levee, 37 feet below the crown. Two concrete cutoff walls. Pumps in concrete pumping plant on the landside (LS). Slide gates mounted on a concrete structure on the waterside (WS) slope. Discharges in borrow pit. Flap gates on the WS end. (48-inch by 48-inch reinforced concrete box drainage discharge conduit under the levee and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10088, 1974 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 129, June 1954, (Station 1226+00)]. FS Date: 1/21/2014						

Photo 3 of 3 : UCIP_FA_2019_28955_53264.jpg



WS view: USED Bench Mark on concrete structure at levee shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/31/2019 10/31/2019	Zach Jojola

LM Start	1.93	Rating **	A/W	Issue No.	46	
LM End	1.93	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			38.784127°	38.784127°	
				-121.655057°	-121.655057°	
DWR ID	20026					
Comment Code						
Inspector Comment						
DS_ID:20026 FS_ID:28956 EP_NO: 10088 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: USED Bench Mark on concrete structure at waterside shoulder. FIELD_STRUCT_DESC: [Reclamation District No. 1500, Pumping Plant No. 2] 3 of 3: 48-inch by 48-inch reinforced concrete box drainage discharge conduit under the levee, 37 feet below the crown. Two concrete cutoff walls. Pumps in concrete pumping plant on the landside (LS). Slide gates mounted on a concrete structure on the waterside (WS) slope. Discharges in borrow pit. Flap gates on the WS end. (48-inch by 48-inch reinforced concrete box drainage discharge conduit under the levee and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10088, 1974 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 129, June 1954, (Station 1226+00)]. FS Date: 1/21/2014						

LM Start	1.93	Rating **	A/W	Issue No.	46 (cont)
LM End	1.93	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2019_28956_53269.jpg



WS view: U type concrete headwall and flap gates on levee toe.

Photo 2 of 3 : UCIP_FA_2019_28956_53268.jpg



WS view: U type concrete headwall and flap gates on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/31/2019 10/31/2019	Zach Jojola

LM Start	1.93	Rating **	A/W	Issue No.	46 (cont)
LM End	1.93	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DRAFT DWR UCIP LMA Responsibility			38.784127°	38.784127°
				-121.655057°	-121.655057°
DWR ID	20026				
Comment Code					
Inspector Comment					
DS_ID:20026 FS_ID:28956 EP_NO: 10088 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: USED Bench Mark on concrete structure at waterside shoulder. FIELD_STRUCT_DESC: [Reclamation District No. 1500, Pumping Plant No. 2] 3 of 3: 48-inch by 48-inch reinforced concrete box drainage discharge conduit under the levee, 37 feet below the crown. Two concrete cutoff walls. Pumps in concrete pumping plant on the landside (LS). Slide gates mounted on a concrete structure on the waterside (WS) slope. Discharges in borrow pit. Flap gates on the WS end. (48-inch by 48-inch reinforced concrete box drainage discharge conduit under the levee and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10088, 1974 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 1993. USACE Sacramento O&M Manual 129, June 1954, (Station 1226+00)]. FS Date: 1/21/2014					

Photo 3 of 3 : UCIP_FA_2019_28956_53267.jpg



WS view: USED Bench Mark on concrete structure at levee shoulder.

LM Start	1.95	Rating **	C	Issue No.	22
LM End	1.95	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			38.784296°	38.784296°
				-121.654997°	-121.654997°
DWR ID	DWR_RD1500_02_s_2019_22				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/31/2019 10/31/2019	Zach Jojola

LM Start	1.98	Rating **	A/W	Issue No.	47	
LM End	1.98	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			38.784783 °	38.784783 °	
				-121.654791 °	-121.654791 °	
DWR ID	20088					
Comment Code						
Inspector Comment						
DS_ID:20088						
FS_ID:28891						
EP_NO: 10088						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: Pumping plant was working during the field visit. Three 8.5 ft. X 8.5 ft. concrete box on waterside shoulder.						
FIELD_STRUCT_DESC: [Reclamation District No. 1500, Pumping Plant No. 1] 1 of 3: 84-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee, 24 feet below the crown. Pumps in concrete pumping plant on the landside (LS). Slide gates mounted on a concrete structure on the waterside (WS) slope. Discharges in a concrete spillway and the borrow pit. Ramp on the WS slope. (84-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10088, 1974 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 129, June 1954, (Station 1224+75), three 78-inch concrete conduits referenced].						
FS Date: 1/21/2014						

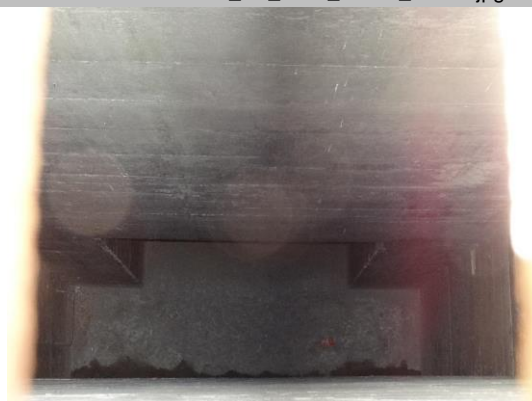
LM Start	1.98	Rating **	A/W	Issue No.	47 (cont)
LM End	1.98	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2019_28891_53137.jpg



WS view: slide gate in concrete box on levee shoulder.

Photo 2 of 3 : UCIP_FA_2019_28891_53136.jpg



WS view: inside view of concrete box on levee shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/31/2019 10/31/2019	Zach Jojola

LM Start	1.98	Rating **	A/W	Issue No.	47 (cont)	
LM End	1.98	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			38.784783 °	38.784783 °	
				-121.654791 °	-121.654791 °	
DWR ID	20088					
Comment Code						
Inspector Comment						
DS_ID:20088 FS_ID:28891 EP_NO: 10088 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: Pumping plant was working during the field visit. Three 8.5 ft. X 8.5 ft. concrete box on waterside shoulder. FIELD_STRUCT_DESC: [Reclamation District No. 1500, Pumping Plant No. 1] 1 of 3: 84-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee, 24 feet below the crown. Pumps in concrete pumping plant on the landside (LS). Slide gates mounted on a concrete structure on the waterside (WS) slope. Discharges in a concrete spillway and the borrow pit. Ramp on the WS slope. (84-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10088, 1974 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 129, June 1954, (Station 1224+75), three 78-inch concrete conduits referenced]. FS Date: 1/21/2014						

Photo 3 of 3 : UCIP_FA_2019_28891_53135.jpg



WS view: outfall structure on levee toe and concrete box on levee shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/31/2019 10/31/2019	Zach Jojola

LM Start	1.98	Rating **	A/W	Issue No.	48	
LM End	1.98	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			38.784818 °	38.784818 °	
				-121.654778 °	-121.654778 °	
DWR ID	20092					
Comment Code						
Inspector Comment						
DS_ID:20092						
FS_ID:28892						
EP_NO: 10088						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: Pumping plant was working during the field visit. Three 8.5 ft. X 8.5 ft. concrete box on waterside shoulder.						
FIELD_STRUCT_DESC: [Reclamation District No. 1500, Pumping Plant No. 1] 2 of 3: 84-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee, 24 feet below the crown. Pumps in concrete pumping plant on the landside (LS). Slide gates mounted on a concrete structure on the waterside (WS) slope. Discharges in a concrete spillway and the borrow pit. Ramp on the WS slope. (84-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10088, 1974 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 129, June 1954, (Station 1224+75), three 78-inch concrete conduits referenced].						
FS Date: 1/21/2014						

LM Start	1.98	Rating **	A/W	Issue No.	48 (cont)
LM End	1.98	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2019_28892_53147.jpg



WS view: outfall structure on levee toe and concrete box on levee shoulder.

Photo 2 of 3 : UCIP_FA_2019_28892_53146.jpg



WS view: slide gate in concrete box on levee shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/31/2019 10/31/2019	Zach Jojola

LM Start	1.98	Rating **	A/W	Issue No.	48 (cont)	
LM End	1.98	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			38.784818 °	38.784818 °	
				-121.654778 °	-121.654778 °	
DWR ID	20092					
Comment Code						
Inspector Comment						
DS_ID:20092 FS_ID:28892 EP_NO: 10088 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: Pumping plant was working during the field visit. Three 8.5 ft. X 8.5 ft. concrete box on waterside shoulder. FIELD_STRUCT_DESC: [Reclamation District No. 1500, Pumping Plant No. 1] 2 of 3: 84-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee, 24 feet below the crown. Pumps in concrete pumping plant on the landside (LS). Slide gates mounted on a concrete structure on the waterside (WS) slope. Discharges in a concrete spillway and the borrow pit. Ramp on the WS slope. (84-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10088, 1974 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 129, June 1954, (Station 1224+75), three 78-inch concrete conduits referenced]. FS Date: 1/21/2014						

Photo 3 of 3 : UCIP_FA_2019_28892_53145.jpg



WS view: inside view of concrete box on levee shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/31/2019 10/31/2019	Zach Jojola

LM Start	1.99	Rating **	A/W	Issue No.	49	
LM End	1.99	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			38.784856 °	38.784856 °	
				-121.654762 °	-121.654762 °	
DWR ID	20093					
Comment Code						
Inspector Comment						
DS_ID:20093 FS_ID:28893 EP_NO: 10088 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: Pumping plant was working during the field visit. Three 8.5 ft. X 8.5 ft. concrete box on waterside shoulder. FIELD_STRUCT_DESC: [Reclamation District No. 1500, Pumping Plant No. 1] 3 of 3: 84-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee, 24 feet below the crown. Pumps in concrete pumping plant on the landside (LS). Slide gates mounted on a concrete structure on the waterside (WS) slope. Discharges in a concrete spillway and the borrow pit. Ramp on the WS slope. (84-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10088, 1974 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 129, June 1954, (Station 1224+75), three 78-inch concrete conduits referenced]. FS Date: 1/21/2014						

LM Start	1.99	Rating **	A/W	Issue No.	49 (cont)
LM End	1.99	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP_FA_2019_28893_53157.jpg



WS view: slide gate in concrete box on levee shoulder.

Photo 2 of 3 : UCIP_FA_2019_28893_53156.jpg



WS view: inside view of concrete box on levee shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/31/2019 10/31/2019	Zach Jojola

LM Start	1.99	Rating **	A/W	Issue No.	49 (cont)	
LM End	1.99	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DRAFT DWR UCIP LMA Responsibility			38.784856 °	38.784856 °	
				-121.654762 °	-121.654762 °	
DWR ID	20093					
Comment Code						
Inspector Comment						
DS_ID:20093 FS_ID:28893 EP_NO: 10088 Repair Type: No Action Needed Crossing Status: Found UCIP Comments: Pumping plant was working during the field visit. Three 8.5 ft. X 8.5 ft. concrete box on waterside shoulder. FIELD_STRUCT_DESC: [Reclamation District No. 1500, Pumping Plant No. 1] 3 of 3: 84-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee, 24 feet below the crown. Pumps in concrete pumping plant on the landside (LS). Slide gates mounted on a concrete structure on the waterside (WS) slope. Discharges in a concrete spillway and the borrow pit. Ramp on the WS slope. (84-inch by 84-inch reinforced concrete box drainage discharge conduit under the levee and all other appurtenances retained under Automatic Board Order (ABO) issued as Permit No. 10088, 1974 - Reclamation District No. 1500). [Additional Reference(s): DWR Levee Log, 2005. USACE Sacramento O&M Manual 129, June 1954, (Station 1224+75), three 78-inch concrete conduits referenced]. FS Date: 1/21/2014						

Photo 3 of 3 : UCIP_FA_2019_28893_53155.jpg



WS view: outfall structure on levee toe and concrete box on levee shoulder.

LM Start	8.31	Rating **	A/W	Issue No.	20
LM End	8.31	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.872391 °	38.872391 °
				-121.642262 °	-121.642262 °
DWR ID	DWR_RD1500_02_f_2019_20				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent hole on the landside slope. Recommend monitoring.					

Photo 1 of 1 : FA_2019_RD1500_190_20_20191104_00042.jpg



View of rodent hole on the landside slope. Fall 2019.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/31/2019 10/31/2019	Zach Jojola

LM Start	9.07	Rating **	A/W	Issue No.	17
LM End		Issue Type +	Ob	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.882215 °		
			-121.635989 °		
DWR ID	294-07				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Site ID No:171 Site Designation:294-07 Repair Type: Seepage Rating: Field Date: Notes:					

No Photos

LM Start	9.47	Rating **	A/W	Issue No.	18
LM End		Issue Type +	Ob	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.887933 °		
			-121.635840 °		
DWR ID	294-08				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Site ID No:170 Site Designation:294-08 Repair Type: Seepage Rating: Field Date: Notes:					

No Photos

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/31/2019 10/31/2019	Zach Jojola

LM Start	9.52	Rating **	A/W	Issue No.	19
LM End		Issue Type +	Ob	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.888648 °		
			-121.635940 °		
DWR ID	294-114				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Site ID No:168 Site Designation:294-114 Repair Type: Seepage Rating: Field Date: Notes:					

No Photos

LM Start	9.54	Rating **	A/W	Issue No.	33
LM End		Issue Type +	Ob	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.888935 °		
			-121.635981 °		
DWR ID	294-10				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Site ID No:169 Site Designation:294-10 Repair Type: Seepage Rating: Field Date: Notes:					

No Photos

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/31/2019 10/31/2019	Zach Jojola

LM Start	9.74	Rating **	A/W	Issue No.	34
LM End		Issue Type +	Ob	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.891792 °	°
				-121.636405 °	°
DWR ID	294-115				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Site ID No:167 Site Designation:294-115 Repair Type: Seepage Rating: Field Date: Notes:					

No Photos

LM Start	10.25	Rating **	A/W	Issue No.	35
LM End		Issue Type +	Ob	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.899209 °	°
				-121.637700 °	°
DWR ID	294-11				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Site ID No:172 Site Designation:294-11 Repair Type: Seepage Rating: Field Date: Notes:					

No Photos

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/31/2019 10/31/2019	Zach Jojola

LM Start	10.31	Rating **	A/W	Issue No.	36
LM End		Issue Type +	Ob	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.900064 °	°
				-121.637846 °	°
DWR ID	294-12				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Site ID No:166 Site Designation:294-12 Repair Type: Seepage Rating: Field Date: Notes:					

No Photos

LM Start	10.34	Rating **	A/W	Issue No.	37
LM End		Issue Type +	Ob	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.900493 °	°
				-121.637921 °	°
DWR ID	294-13				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Site ID No:165 Site Designation:294-13 Repair Type: Seepage Rating: Field Date: Notes:					

No Photos

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/31/2019 10/31/2019	Zach Jojola

LM Start	14.13	Rating **	U	Issue No.	4
LM End	14.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Underseepage Relief Wells			38.947628 °	38.947628 °
				-121.669764 °	-121.669764 °
DWR ID	DWR_RD1500_02_s_2012_4				
Comment Code					
Inspector Comment					
The concrete pad and the PVC underneath are broken apparently by an attempt to pull out the head of the well.					

Photo 1 of 3 : FA_2019_RD1500_190_4_20190829_00001.jpg



View of underseepage relief well with destroyed concrete pad as well as PVC pipes. Fall 2016.

LM Start	14.13	Rating **	U	Issue No.	4 (cont)
LM End	14.13	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : FA_2019_RD1500_190_4_20190829_00002.jpg



Another view of damaged well. Fall 2016.

LM Start	14.13	Rating **	U	Issue No.	4 (cont)
LM End	14.13	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : FA_2019_RD1500_190_4_20190829_00003.jpg



View of the relief well at historical boil 12. Fall 2015.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Levee Inspection Report By Mile - Fall 2019

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/31/2019 10/31/2019	Zach Jojola

LM Start	14.47	Rating **	A/W	Issue No.	11
LM End	14.47	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Underseepage Relief Wells			38.951413 °	38.951413 °
				-121.673856 °	-121.673856 °
DWR ID	DWR_RD1500_02_s _ 2012_11				
Comment Code					
Inspector Comment					

A relief well at historical boil 16. Fall 2015.

LM Start	18.17	Rating **	A/W	Issue No.	13
LM End	18.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Underseepage Relief Wells			38.987031 °	38.987031 °
				-121.725049 °	-121.725049 °
DWR ID	DWR_RD1500_02_s _ 2012_13				
Comment Code					
Inspector Comment					

A photograph showing a gravel road with two circular manhole covers. The road is bordered by tall, dry yellow grass. In the background, there is a blue body of water. The date 10/29/2015 is printed in the bottom right corner.

View of two of four drains on the landward side of the levee. Fall 2015.

LM Start	18.17	Rating **	A/W	Issue No.	13 (cont)
LM End	18.17	Issue Type +	Ma	Location *	LS

View of the 4 drains at the levee toe on the landward side. Fall 2015.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2019

Reclamation District No. 1500 Sutter Basin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	20.72	10/31/2019 10/31/2019	Zach Jojola

LM Start	18.43	Rating **	A/W	Issue No.	15
LM End	18.43	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Underseepage Relief Wells			38.989962 °	38.989962 °
				-121.727896 °	-121.727896 °
DWR ID	DWR_RD1500_02_s_2015_15				
Comment Code					
Inspector Comment					

Photo 1 of 1 : FA_2019_RD1500_190_15_20190829_00008.jpg



View of the toe drainage at the landward toe berm. Fall 2015.

LM Start	18.73	Rating **	C	Issue No.	23
LM End	18.73	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.993748 °	38.993748 °
				-121.730807 °	-121.730807 °
DWR ID	DWR_RD1500_02_s_2019_23				
Comment Code					
TR : Tree or limb					
Inspector Comment					
There is a fallen tree on the waterside slope.					

No Photos

LM Start	18.78	Rating **	C	Issue No.	24
LM End	18.78	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.994330 °	38.994330 °
				-121.731177 °	-121.731177 °
DWR ID	DWR_RD1500_02_s_2019_24				
Comment Code					
TR : Tree or limb					
Inspector Comment					
A fallen tree on the waterside slope needs removal.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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